SAMSUNG

VIDEO CASSETTE RECORDER

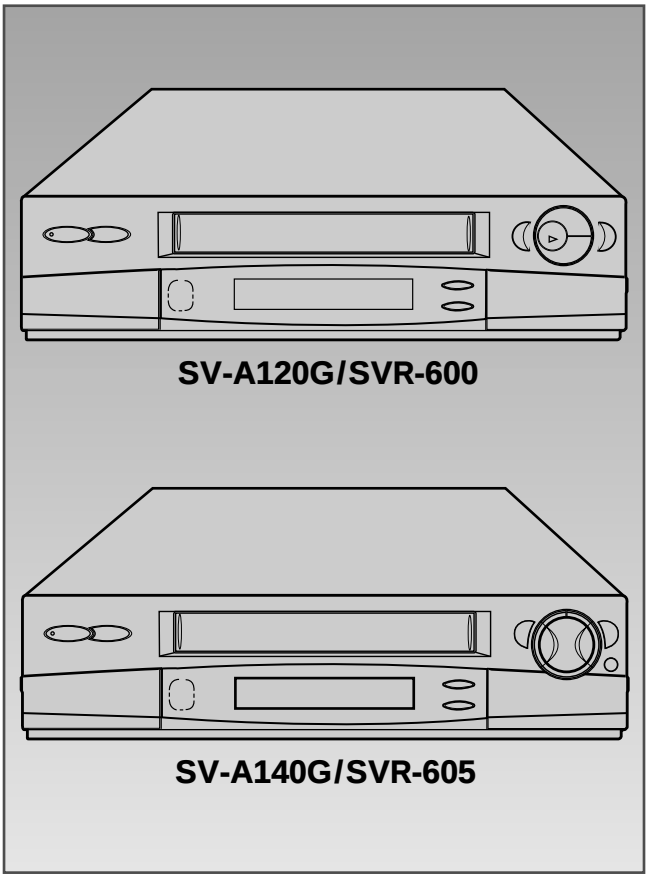
SV-A120G/SVR-600
SV-A140G/SVR-605

VHS
PAL

SERVICE Manual

For mechanical disassembly and adjustment, refer to the "Mechanical Manual" (DX7-R/RC, DX8-R/RC ⟶ AC68-20316A).

VIDEO CASSETTE RECORDER



SV-A120G/SVR-600

SV-A140G/SVR-605

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AC68-20353A

1. Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.

2. When reinstalling the chassis and its assemblies, be sure to restore all pretective devices, including : control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people--particularly children --might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

   If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (See Fig. 1) :
   Warning : Do not use an isolation transformer during this test. Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

5. With the unit completely reassembled, plug the AC line cord directly the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known erath ground (metal water pipe, conduit, etc.) and all exposed metal parts, including : antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

6. X-ray Limits :
   The picture tube is designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original.

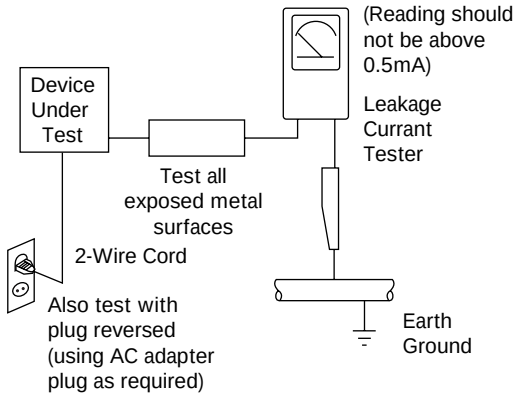

(Reading should not be above 0.5mA)
Device Under Test
Leakage Currant Tester
Test all exposed metal surfaces
2-Wire Cord
Also test with plug reversed (using AC adapter plug as required)
Earth Ground

Fig. 1-1 AC Leakage Test

7. Antenna Cold Check :
   With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong.
   Connect the other lead to the coaxial connector.

8. High Voltage Limit :
   High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits.

   Heed the high voltage limits. These include the *X-ray protection Specifications Label*, and the *Product Safety and X-ray Warning Note* on the service data schematic.

9. Some semiconductor ("solid state") devices are easily damaged by static electricity.
   Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.

10. Immediately before handling sny semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging Wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)

11. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.

12. Design Alteration Warning :
    Never alter or add to the mechanical or electrical design of this unit. Example : Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

13. Hot Chassis Warning :
    Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

    To confirm that the AC power plug is inserted correctly, do the following : Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.

14. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, *regardless of the AC plug polarity*. These units can be safely serviced *only* if an isolation transformer inserted between the receiver and the power source.

15. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

16. Always connect a test instrument's ground lead to the instrument chassis ground *before* connecting the positive lead; always remove the instrument's ground lead last.

17. Observe the original lead dress, especially near the following areas : Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.

18. Picture Tube Implosion Warning :
    The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.

19. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.

20. Product Safety Notice :
    Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

    Components that are critical for safety are indicated in the circuit diagram by shading, (or).
    Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

2. Reference Information

2-1 Servicing Jigs and Special Tools

2-1-1 Servicing guide

1. For this VCR chassis, the program switch and the sensors (start/end/reel) are located on the main PCB, not on the deck ass'y.

2. As long as the deck ass'y is connected to the main PCB, all repairs are possible.
   Important : In order to repair the main PCB without the deck ass'y connected, the X-5 chassis jig should be used.

3. To emulate the function of the sensors, connect a jumper or solder land (two point) at service option(W750) on the function-timer PCB.

4. The X-5 chassis jig can be used for the following :

1) When repairing or confirming the operation of the deck ass'y.
2) When replacing or repairing the components located under the deck ass'y.
3) When repairing the function PCB.

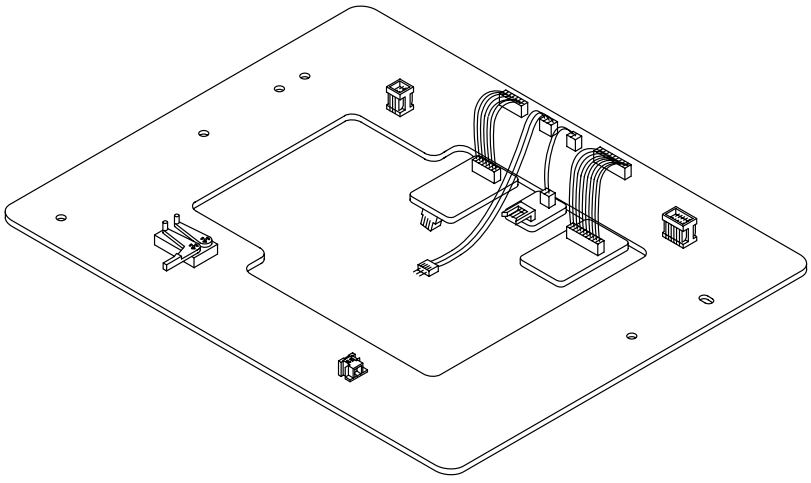
5. The X-5 chassis jig can not be used for the following :

1) Repairing defects in the video section.
2) Repairing defects in the audio section.
3) If the defect is related to tape speed.

Note :
1) Repair may not be possible if there is external noise between the deck ass'y and main PCB.
2) If tape control signal is not connected to the jig, the VCR must be operated in SP mode.

2-1-2 Servicing Jig

Jig Item	Part No.	Use
X-5 Chassis Jig	68140-500-013	Connects the deck ass'y to the main PCB connecting cable.



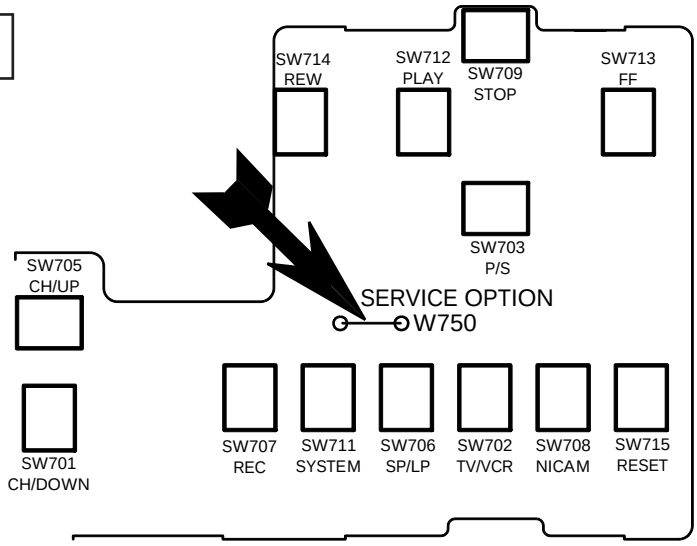
2-1-4 How to Connect X-5 chassis jig

1. Unplug the power cord from AC outlet.

2. Remove the deck ass'y from main PCB (See Page 4-5 of service manual).

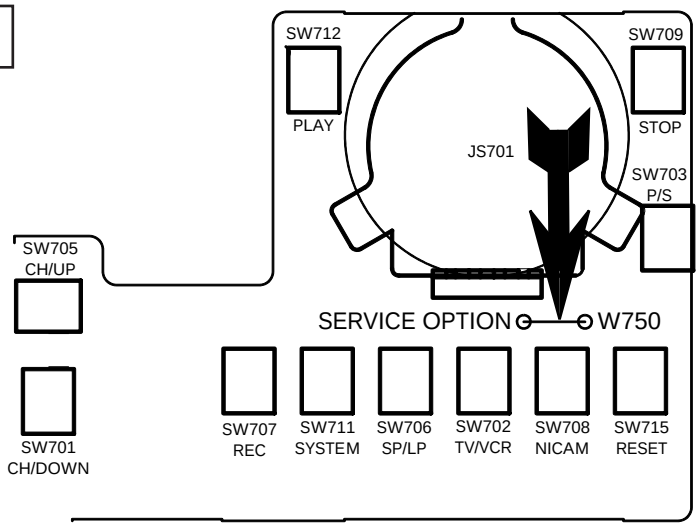
3. To emulate the function of the sensors, place a jumper or solder land (two point) at service option(W750) on the function-timer PCB. (see diagram below).

SV-A120G/SVR-600



Function-Timer (Component side)

SV-A140G/SVR-605



Function-Timer (Component side)

Note : After completing repairs, SW715 on the function PCB in order to reset.

4. Insert wafers of drum motor, capstan motor and loading motor on X-5 chassis jig into each of the connectors of deck ass'y, and then secure with three screws.

5. Solder the 3 leads of the jig cable to "CN605" on the main PCB.

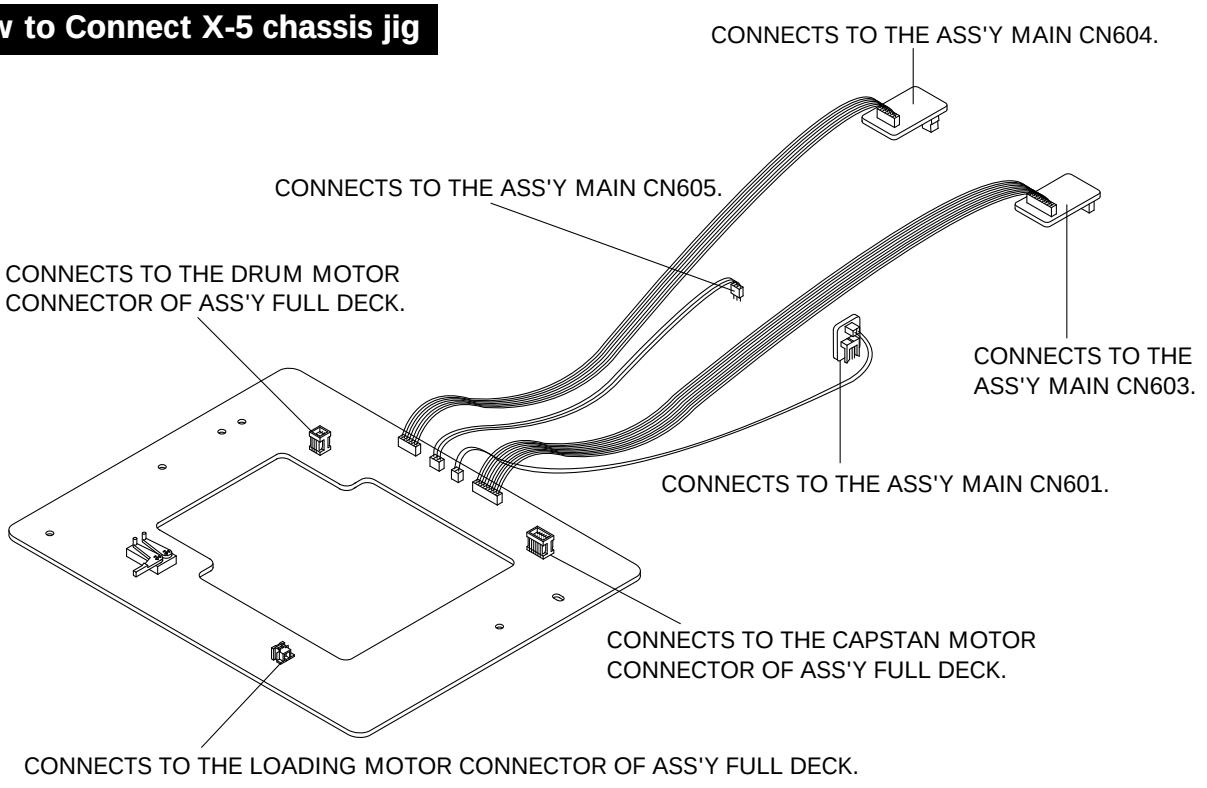
6. Apply power to the function PCB.

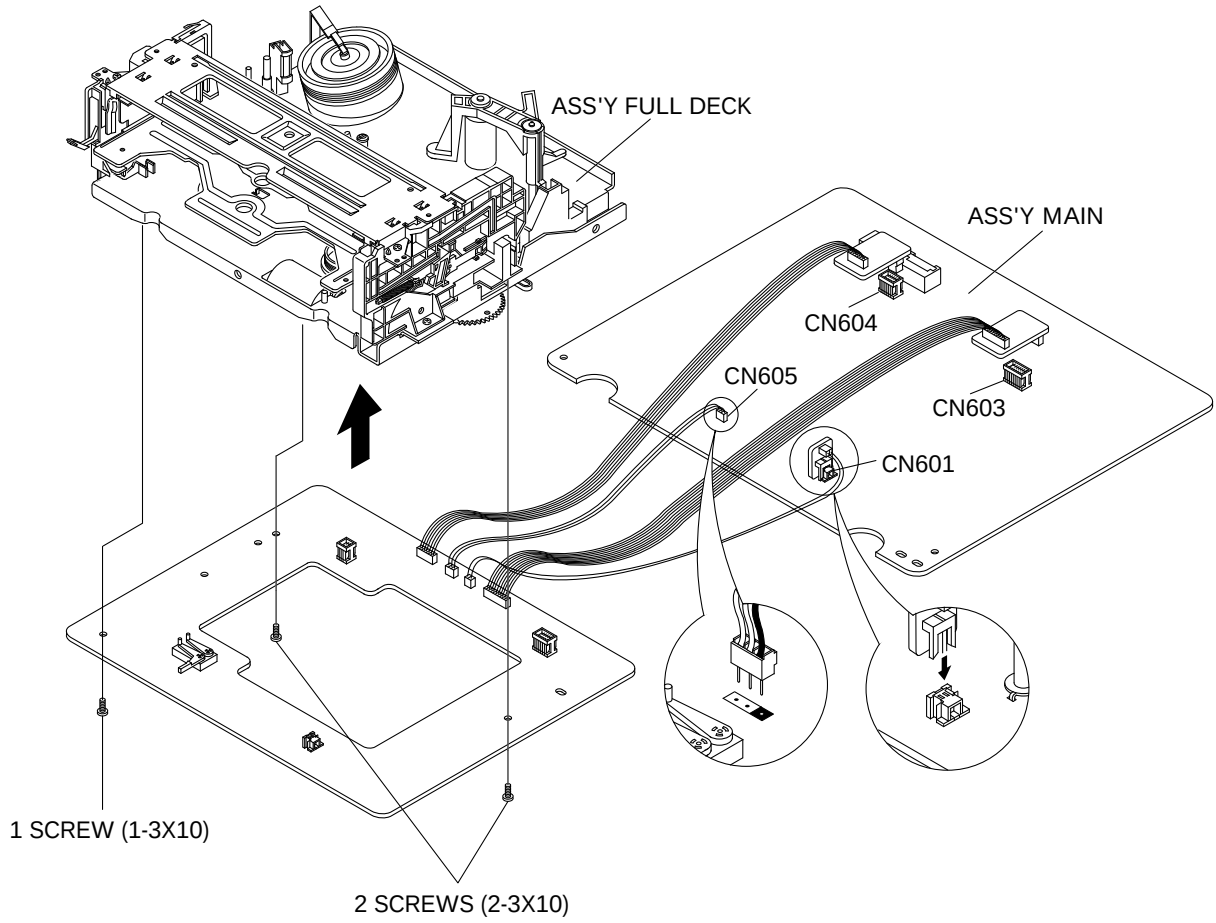
7. Insert a test tape into the housing ass'y.

8. Simultaneously touch the start and end sensor LEDs on the PCB, so that the tape loads automatically. After the tape is loaded, all of the function buttons on the function PCB can be used.

9. If the test tape is ejected while the jig is in use, attempt to re-load the tape by simultaneously touching the start and end sensor LEDs. If the tape still does not load, reset the function PCB by pressing SW715.

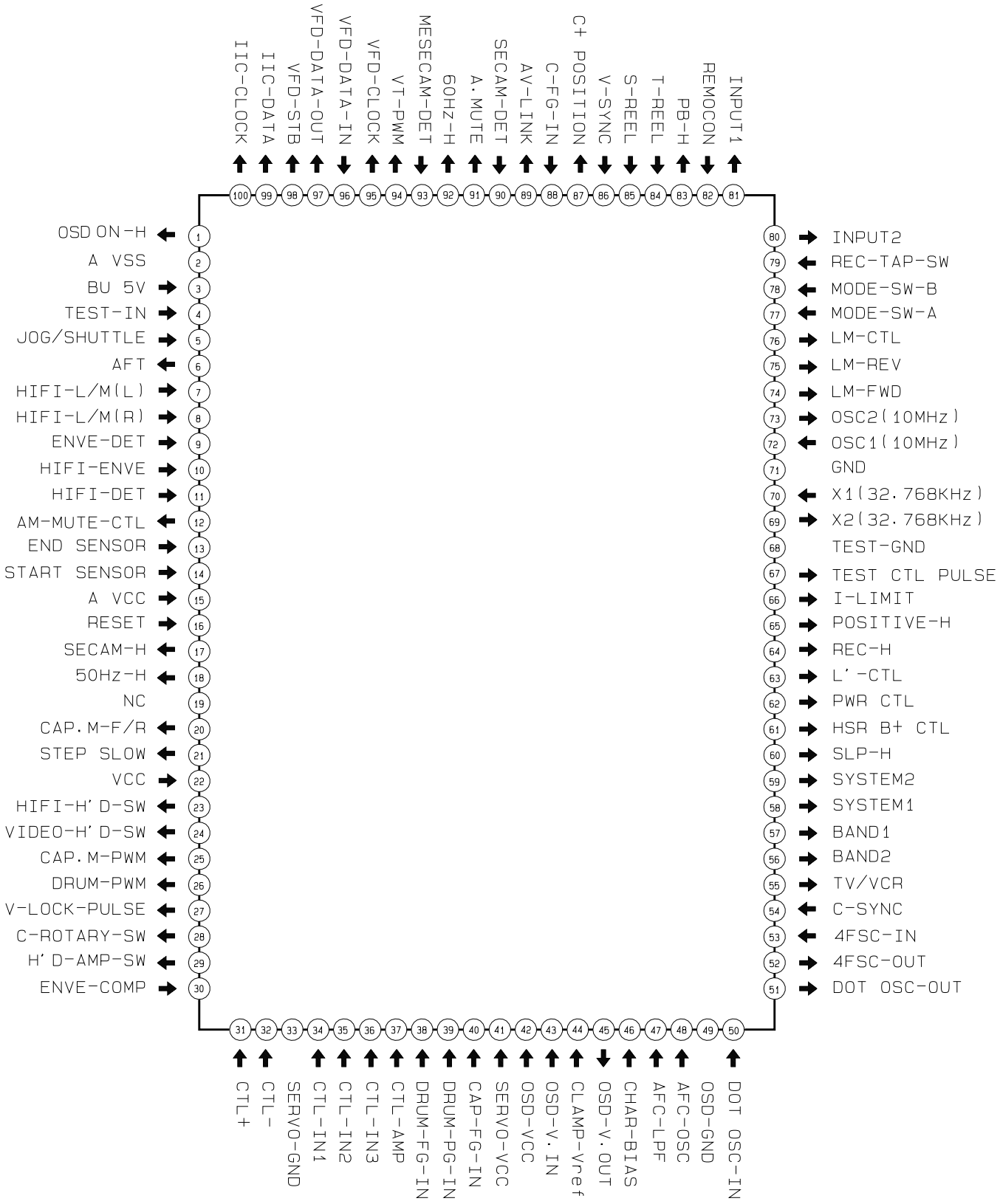
How to Connect X-5 chassis jig


CONNECTS TO THE ASS'Y MAIN CN604.
CONNECTS TO THE ASS'Y MAIN CN605.
CONNECTS TO THE DRUM MOTOR CONNECTOR OF ASS'Y FULL DECK.
CONNECTS TO THE ASS'Y MAIN CN603.
CONNECTS TO THE ASS'Y MAIN CN601.
CONNECTS TO THE CAPSTAN MOTOR CONNECTOR OF ASS'Y FULL DECK.
CONNECTS TO THE LOADING MOTOR CONNECTOR OF ASS'Y FULL DECK.

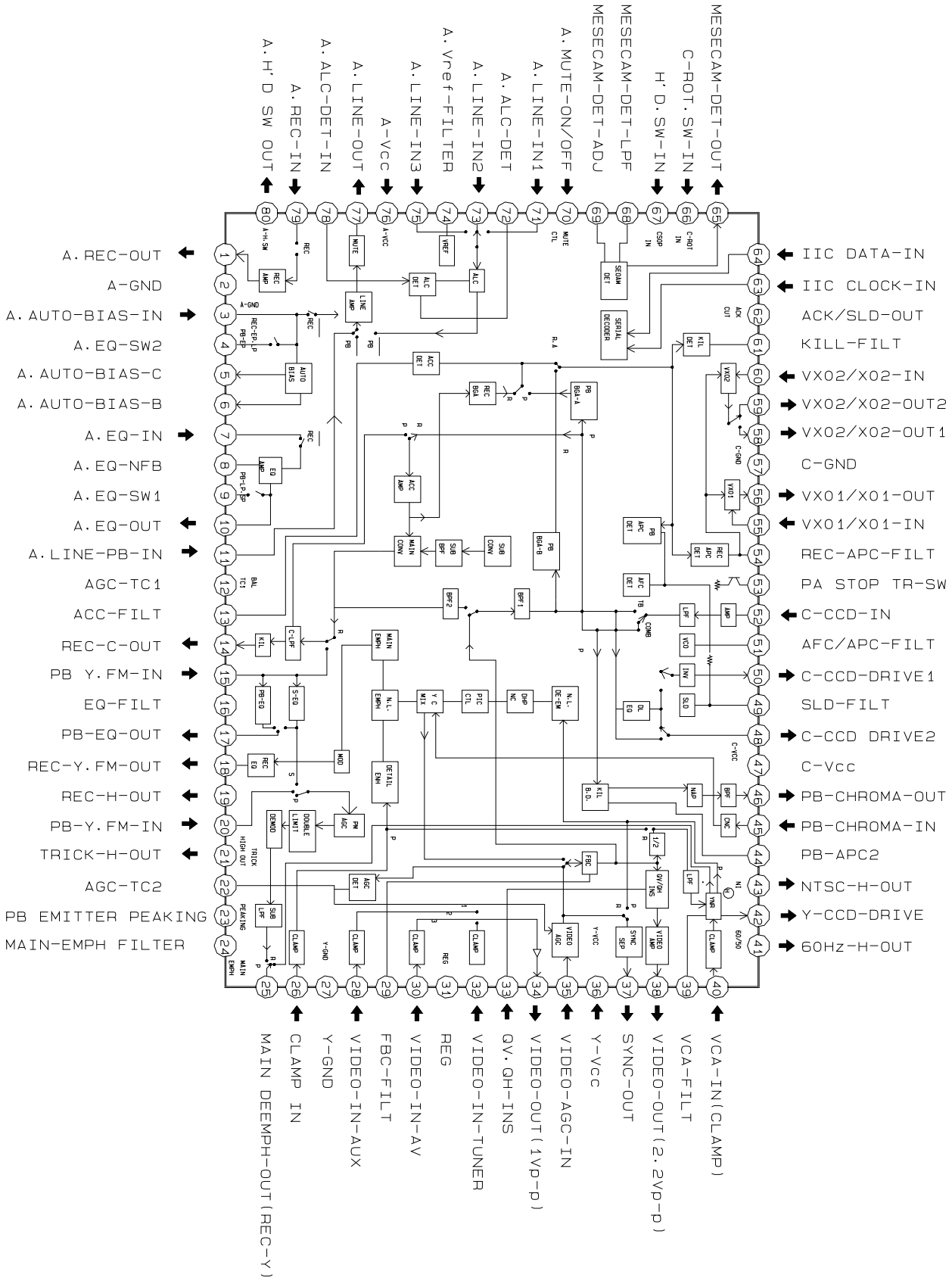


2-2 IC BLOCK

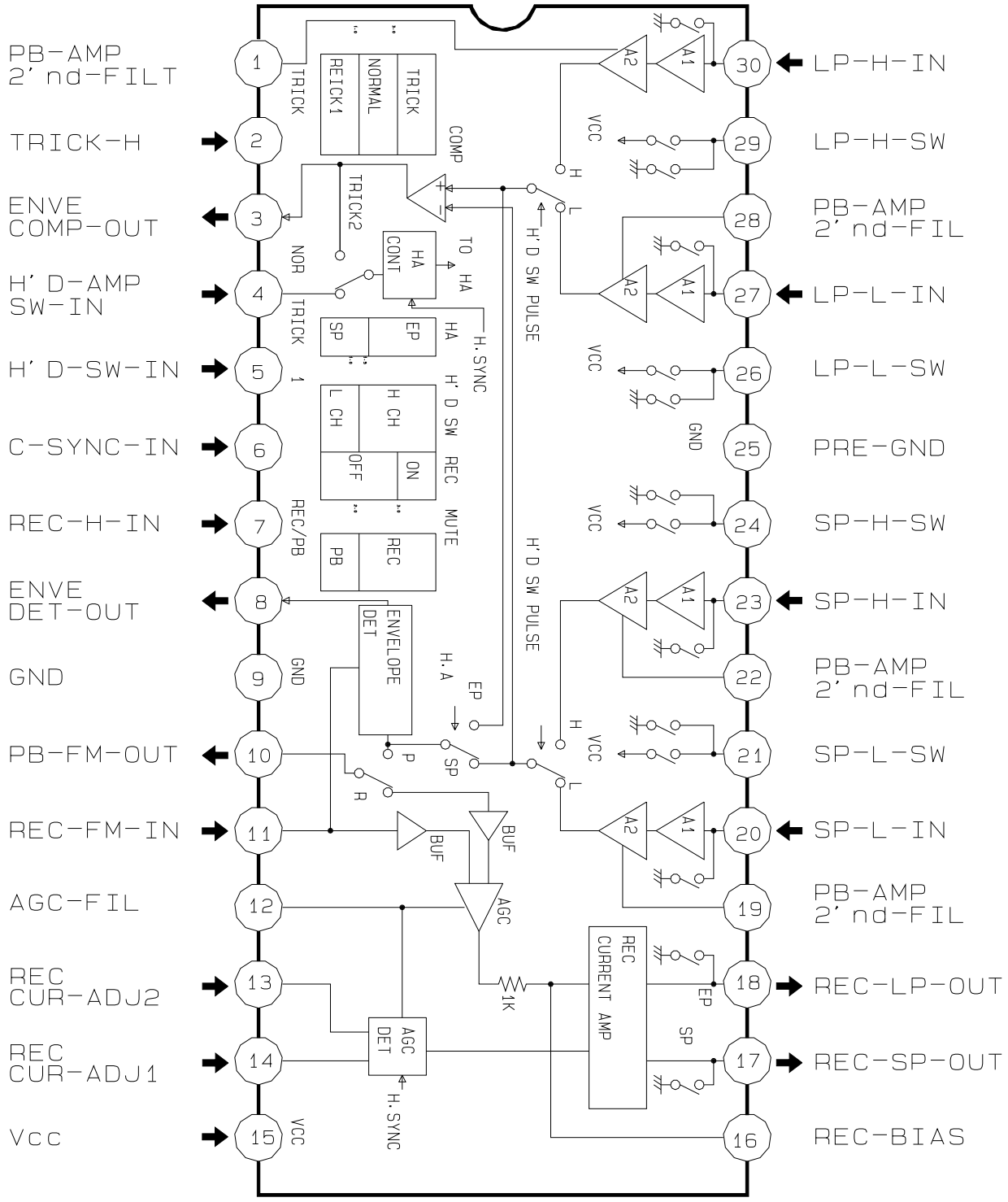
2-2-1 IC601 (HD6473977)



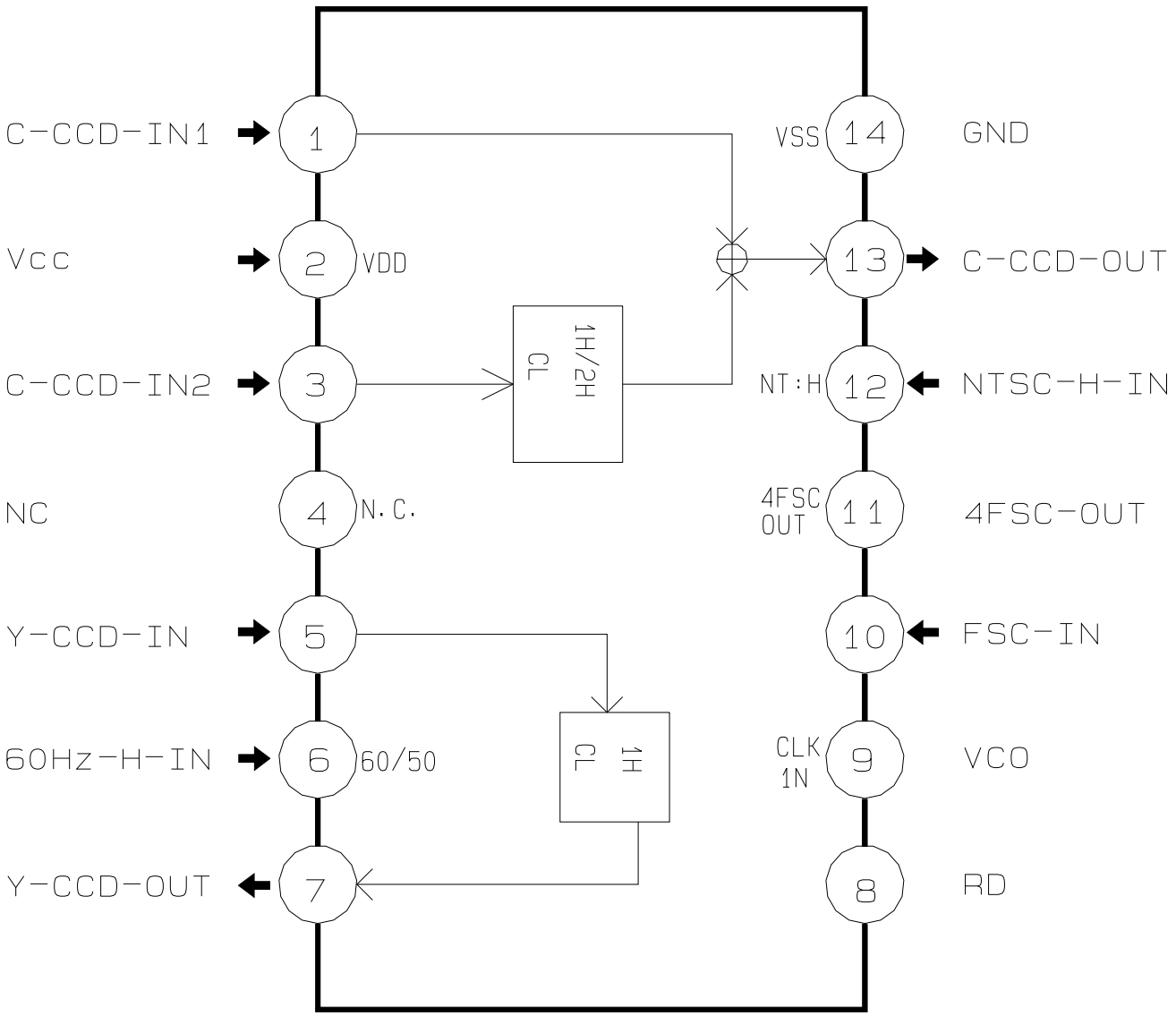
2-2-2 IC301 (SS11501M/SS11511M)



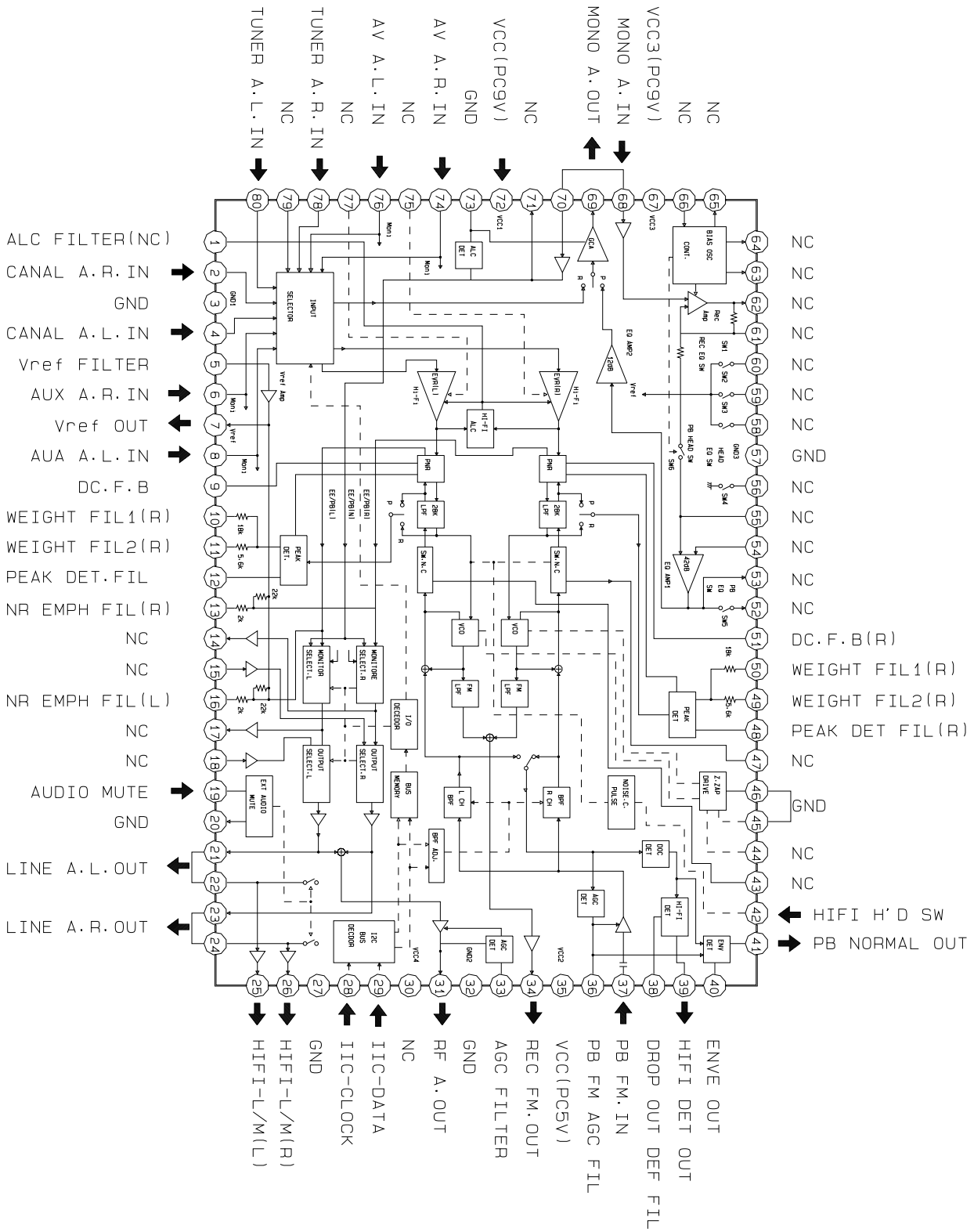
2-2-3 IC302 (LA7416)



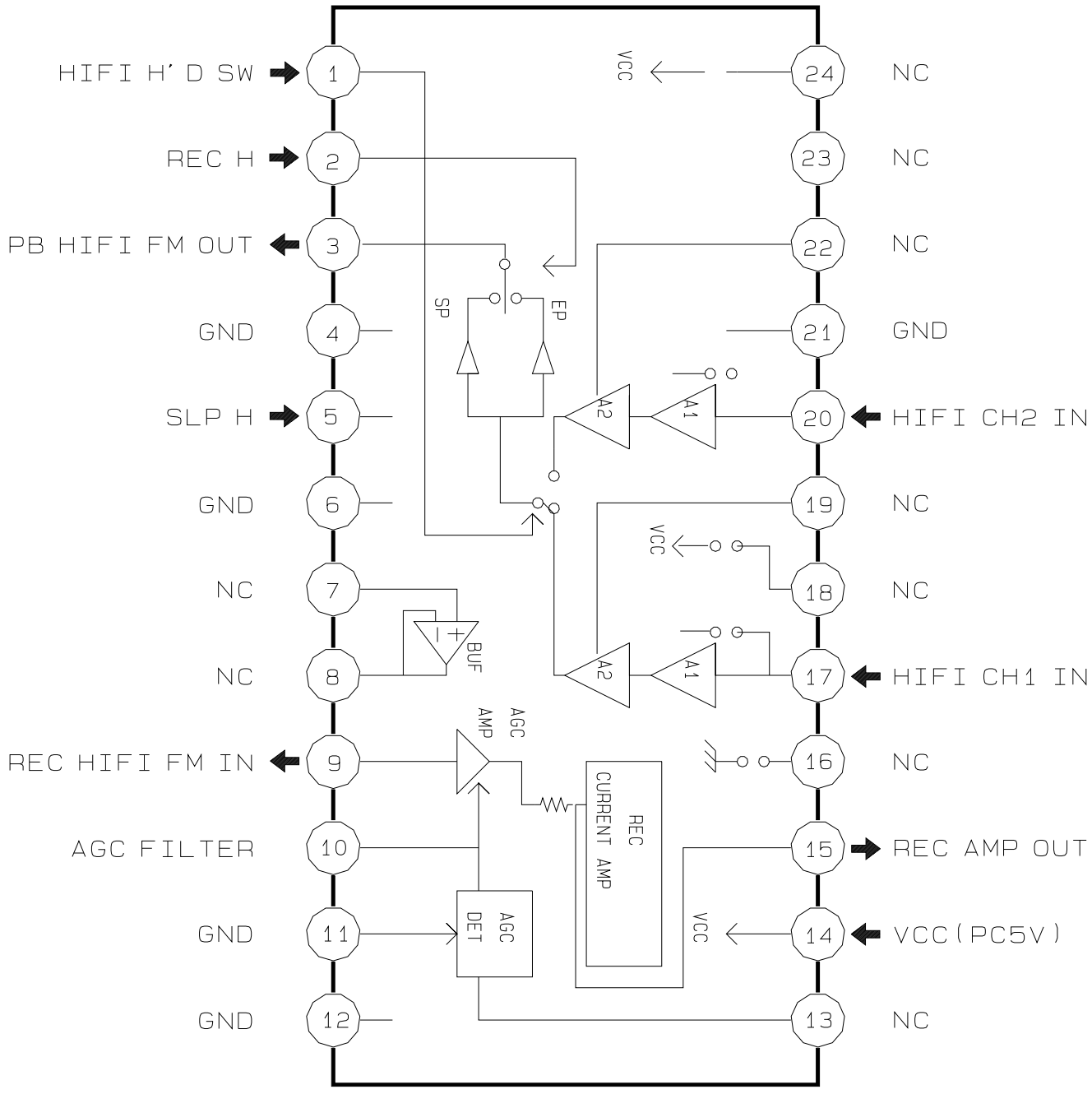
2-2-4 IC303 (SS23377M/SS23378M)



2-2-5 IC501 (TA1264)


ALC FILTER(NC)
CANAL A.R.IN
GND
CANAL A.L.IN
Vref FILTER
AUX A.R.IN
Vref OUT
AUA A.L.IN
DC.F.B
WEIGHT FIL1(R)
WEIGHT FIL2(R)
PEAK DET.FIL
NR EMPH FIL(R)
NC
NC
NR EMPH FIL(L)
NC
NC
AUDIO MUTE
GND
LINE A.L.OUT
LINE A.R.OUT
TUNER A.L.IN
NC
TUNER A.R.IN
NC
AV A.L.IN
NC
AV A.R.IN
GND
VCC(PC9V)
NC
MONO A.OUT
MONO A.IN
VCC3(PC9V)
NC
NC
NC

2-2-6 IC502 (LA7256)



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3. Product Specifications and Comparison Chart

3-1 Product Specifications

Design and specifications are subject to change without notice.

Operation	Description
Format	VHS PAL standard
Heads	Video : 4 rotary heads Hi-Fi audio : 2 rotary heads Audio/Control : 1 stationary head Erase : 1 full track erase head
Receiving channel	VHF-I, VHF-III, UHF, Interband/Hyperband
Television system	STANDARD B/G, D/K
Luminance	FM azimuth recording
Colour system	PAL/MESECAM : Down converted subcarrier phase shifted direct recording NTSC PB on PAL TV
Tape speed	SP : 23.39 mm/sec LP : 11.69 mm/sec
Recording/playback time	SP : 3 hours (E-180 Tape) LP : 6 hours (E-180 Tape)
F.F/REW time	About 100-190 sec in REW/F.F with E-180
VIDEO	
Input Output Signal-to-noise ratio Horizontal resolution	0.5 to 2.0 Vp-p : 75 ohm unbalanced 1.0 ± 0.2 Vp-p : 75 ohm unbalanced Better than 43 dB (SP) More than 240 lines (SP)
Audio	
Input Output Wow and flutter (WTD) Signal-to-noise ratio Frequency response	-8 dBm, 47 Kohm unbalanced -8 ± 3 dBm, 1 Kohm unbalanced 0.4% max (SP) 68 dB min (IHF A filter) 20Hz-20KHz
Power requirement	100~240V (AC 50/60 Hz)
Power consumption	Approx. 21 watts
Operation temperature	41°F-104°F (5°C-40°C)
Operation humidity	10%-75%
Weight	4.4 Kg (net)
Dimensions (W x H x D)	380 x 90.5 x 310 mm

3-2 Comparison Chart

FUNCTION / MODEL	SHUTTLE	AUDIO DUBBING	SLOW	JUST REC	DLC	FRONT A/V	REAR JACK	REMOCON TYPE
SV-A120G/CIS (SVR-600)	X	O	O	O	O	O	RCA	MULTI
SV-A140G/CIS (SVR-605)	O	O	O	O	O	O	RCA	MULTI
SV-A140G/EIS	O	O	O	O	X	O	RCA	MULTI
SV-A140G/SGE	O	O	O	O	X	O	RCA	MULTI
SV-A140G/ZAMA	O	O	O	O	X	O	RCA	MULTI

4. Disassembly and Reassembly

4-1 Cabinet Assembly

Note : Disassemble in the order shown.
Reassemble in reverse order.

4-1-1 Cabinet Top removal

1. Remove 5 screws and slide the top cabinet to the rear to remove.

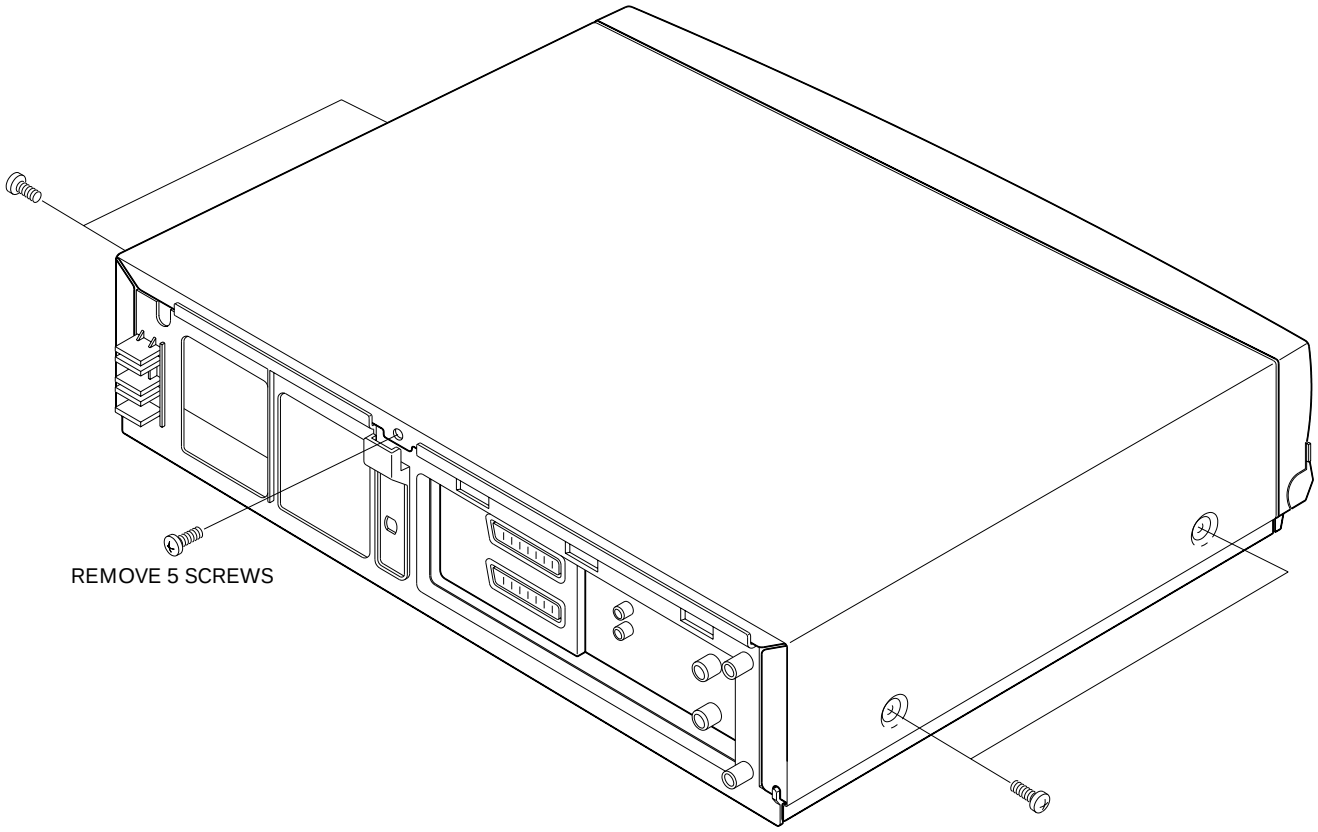
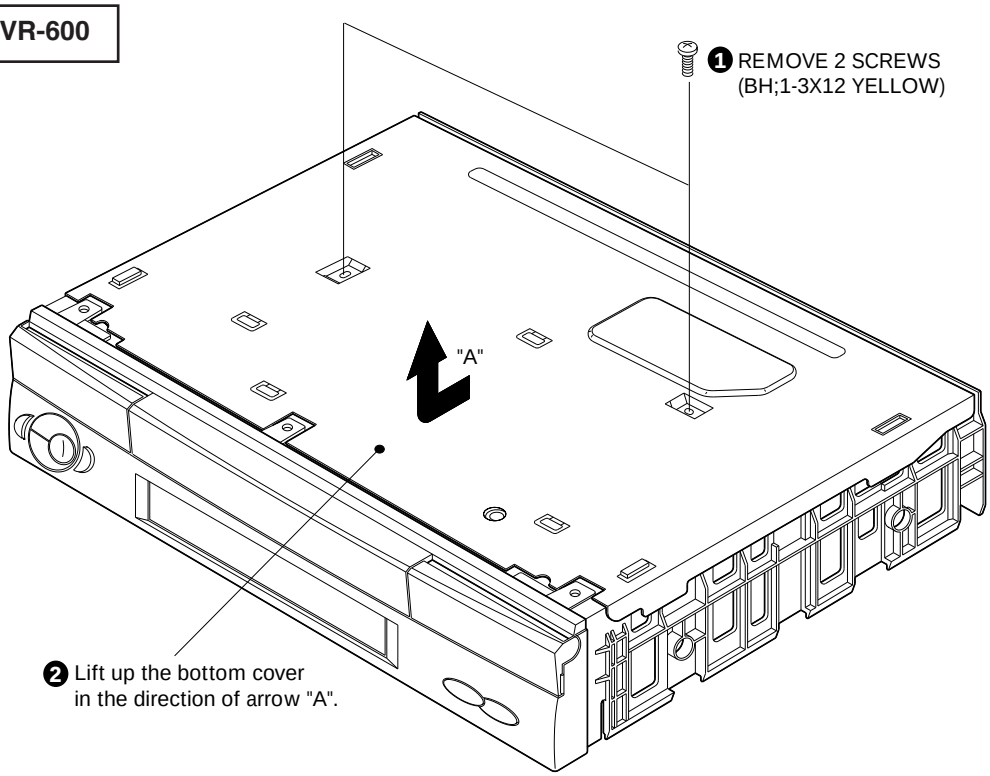


Fig. 4-1 Cabinet Top removal

4-1-2 Bottom cover removal

1. Remove 2 screws.
2. Lift up the bottom cover toward arrow "A".

SV-A120G/SVR-600



SV-A140G/SVR-605

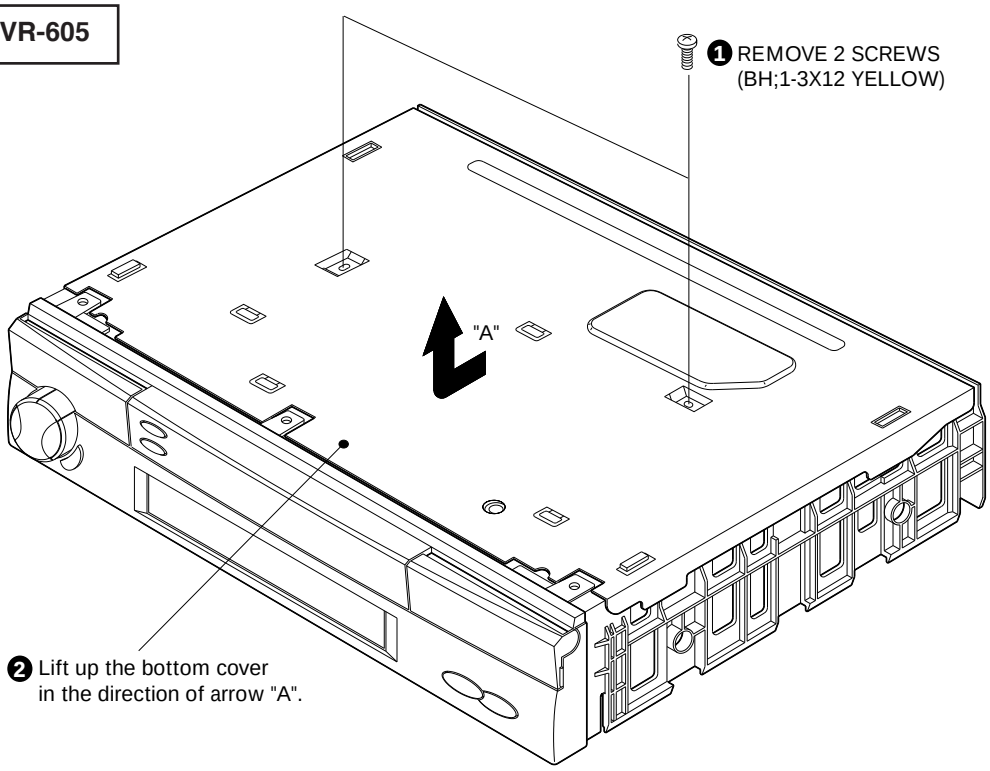
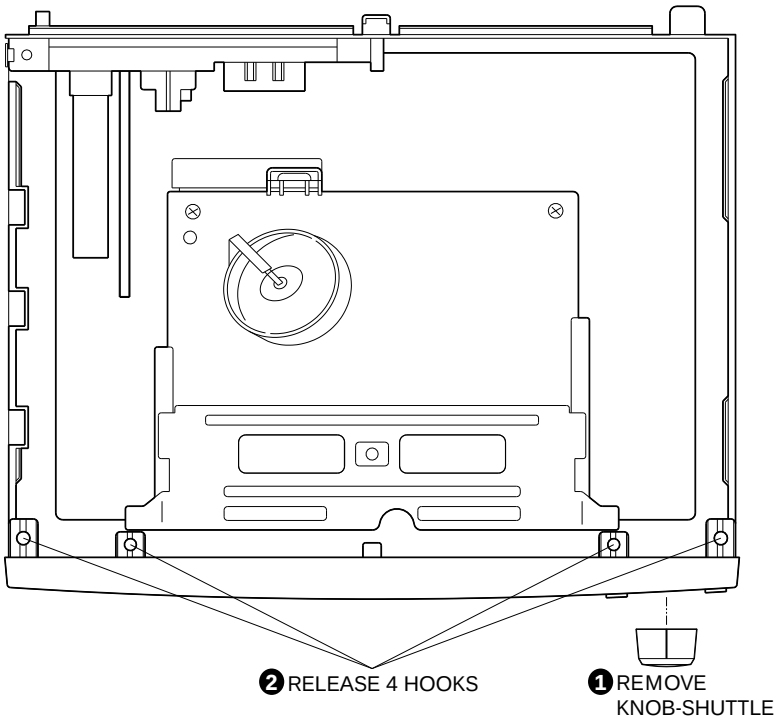


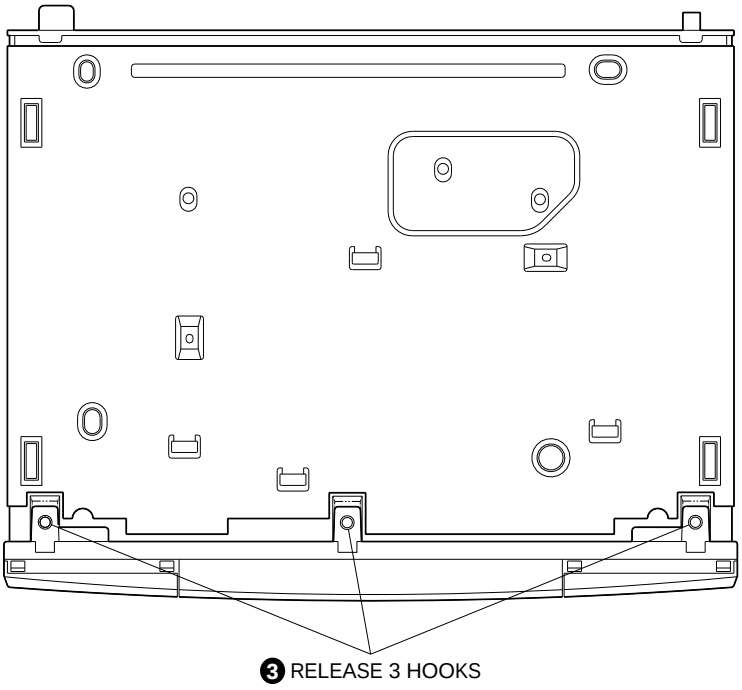
Fig. 4-2 Bottom Cover removal

4-1-3 Ass'y Front Panel removal

1. Remove the knob-shuttle.
2. Release 4 hooks on the top side and 3 hooks on the bottom side and then, pull the ass'y front panel to remove.



(Top view)



(Bottom view)

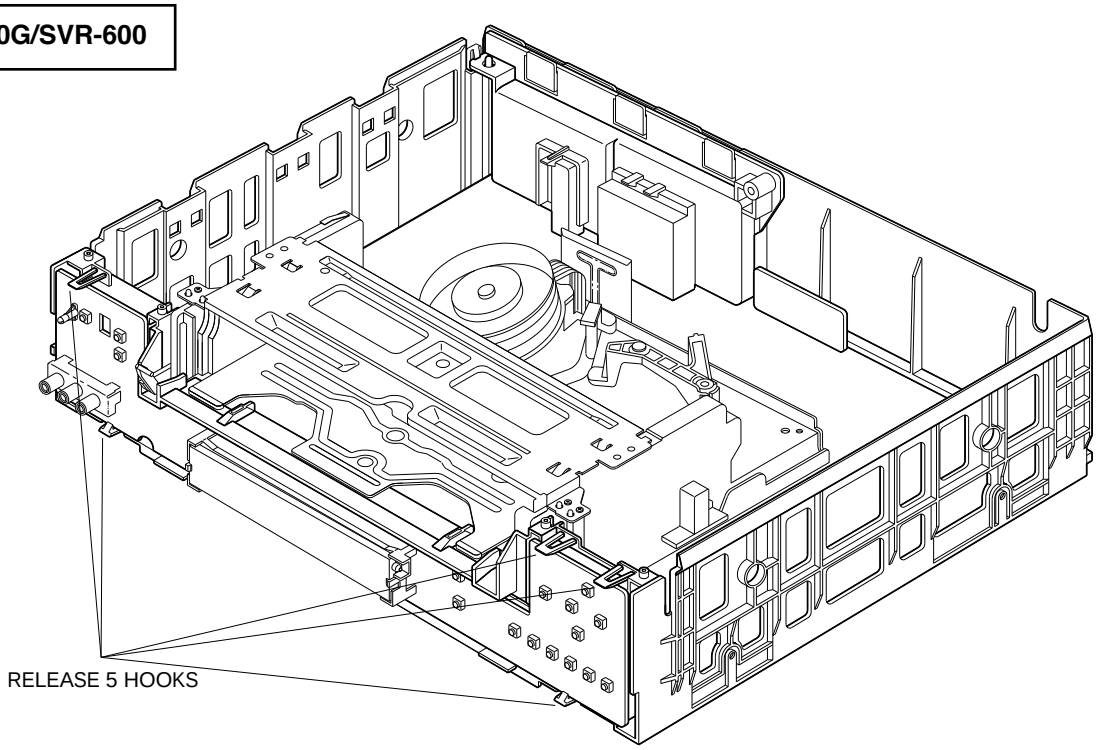
Fig. 4-3 Ass'y Front Panel removal

4-1-4 Ass'y Function-Timer removal

1. Release 5 hooks and remove the ass'y function-timder.

Note : Take extreme care not to damage the PCB when removing it.

SV-A120G/SVR-600



SV-A140G/SVR-605

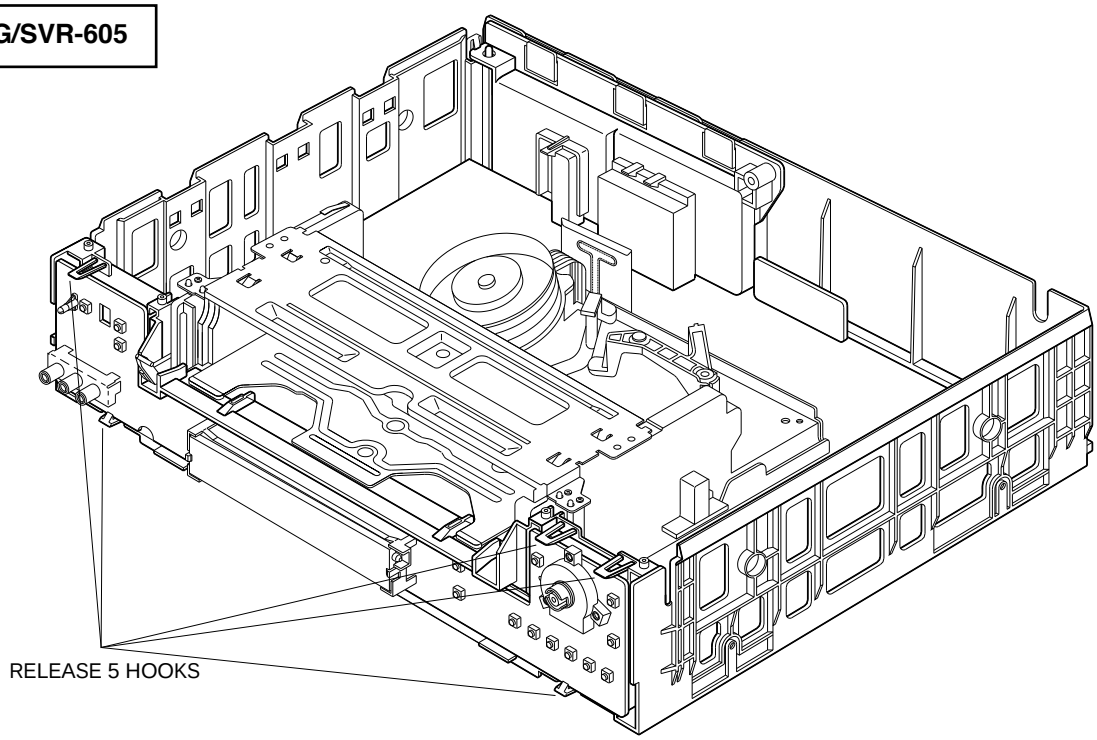


Fig. 4-4 Ass'y Function-Timer removal

4-1-5 Chassis removal

1. Remove 2 screws holding the bottom cover.
2. Remove 2 screws holding the frame.
3. Remove 2 screws holding the housing ass'y.
4. Remove 2 screws holding the ass'y full deck.
5. Lift the ass'y full deck up.
6. Release 1 tab holding the connector board ass'y.
7. Release 1 hook holding the ass'y main.
8. Lift the ass'y main up to remove.

Note : 1. When removing chassis, take extreme care not to damage the main PCB front.
2. When reinstalling the deck on the main PCB, take extreme care not to damage the sensor.

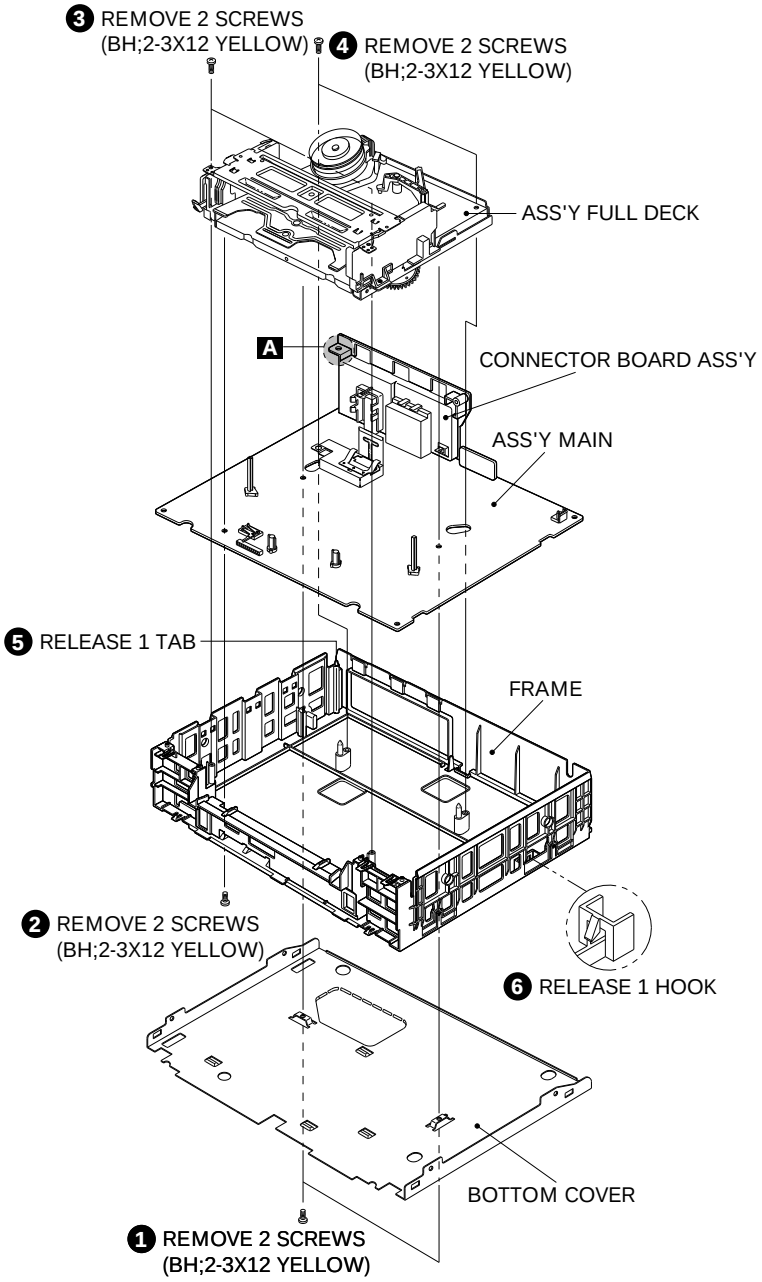


Fig. 4-5 Chassis Removal

4-2 Circuit Board Locations

SV-A120G/SVR-600

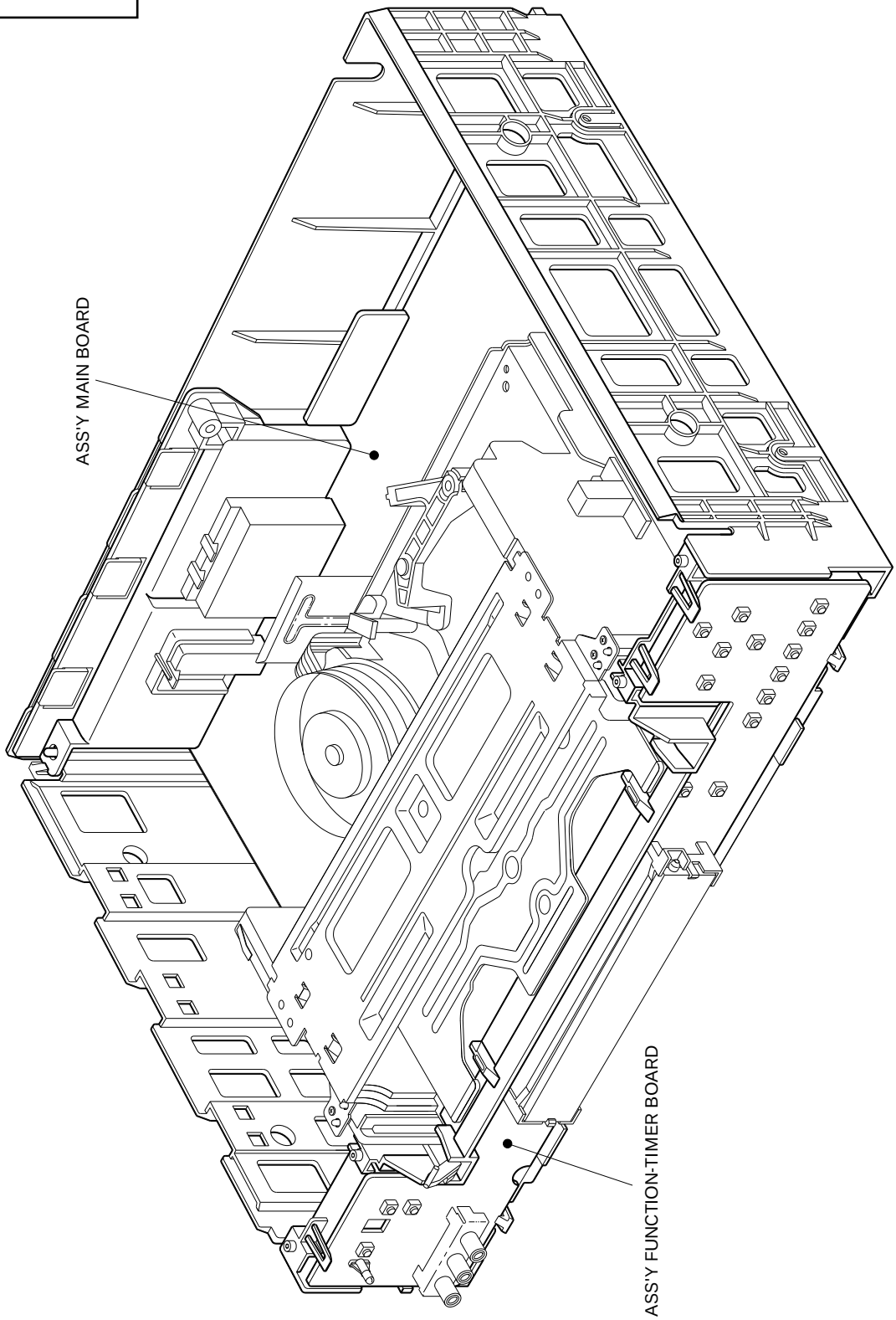


Fig. 4-6 Circuit Board Locations (SV-A120FK/SV-600F)

SV-A140G/SVR-605

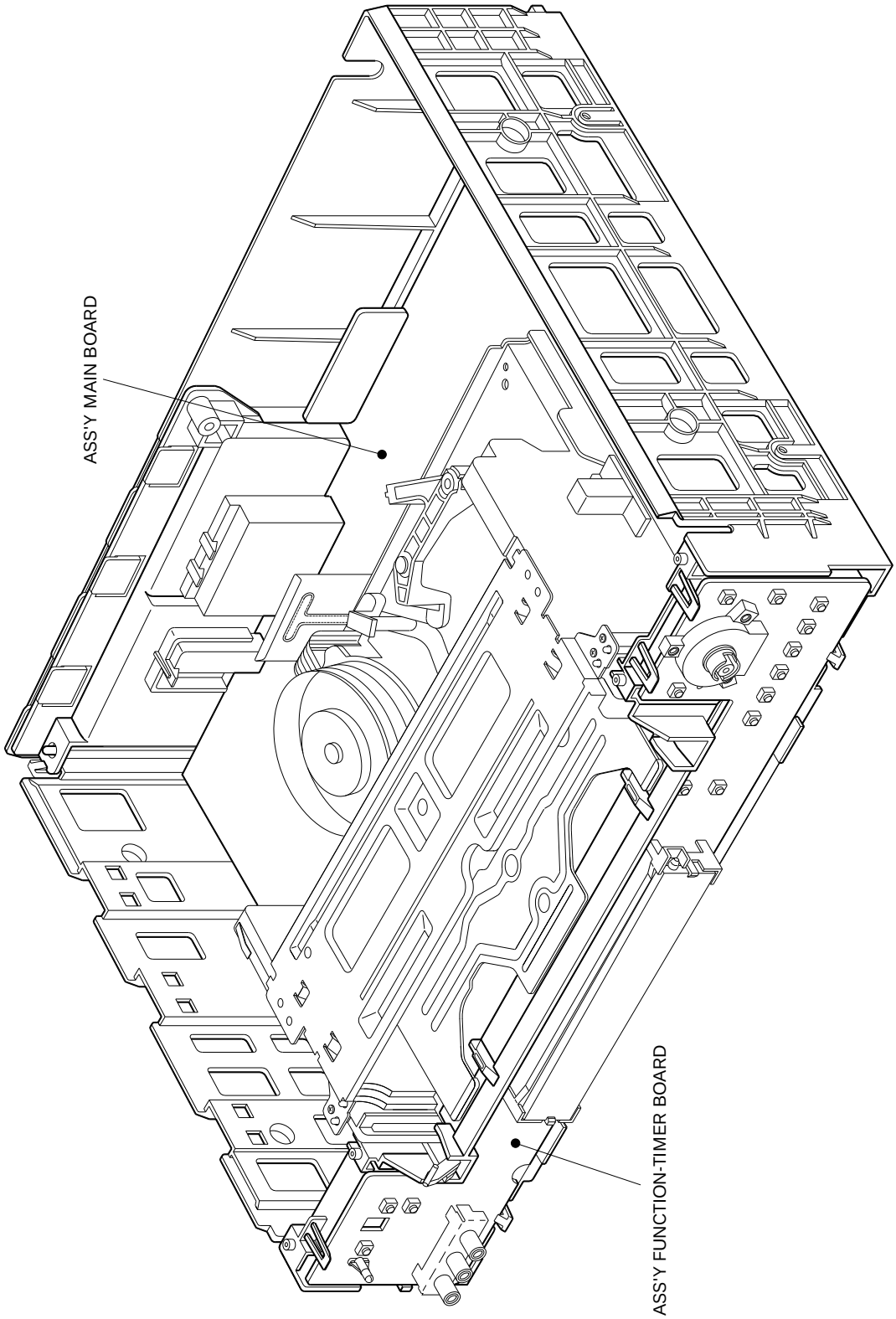


Fig. 4-6 Circuit Board Locations (SV-A140FK/SV-605F)

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5. Alignment and Adjustment

Note : After replacing the ass'y full deck, the ass'y main, the cylinder ass'y and the micom(IC601), the remote control ass'y can be used to adjust the "X-point (tracking center) adjustment" and "Head S/W point" adjustment.

5-1 Reference

5-1-1 The type of remote control ass'y

1. Remote control ass'y (AC93-10039Y/69099-633-252) is specified as a service jig in the service manual of X-5/X-6(DX5-R/DX5-RC/DX6-R/DX6-RC) chassis. (See Fig. 5-1)
2. Normal remote control ass'y for X-7/X-8 (DX7-R/DX7-RC/DX8-R/DX8-RC) chassis. (See Fig. 5-2)

5-1-2 How to identify between normal remote control ass'y and multi remote control ass'y for X-7/X-8 chassis (See Fig. 5-2)

1. The color of some buttons related to TV function are gold.
2. Audio button is added instead of the test button hidden behind of inlay.
3. The positions of some buttons are different.

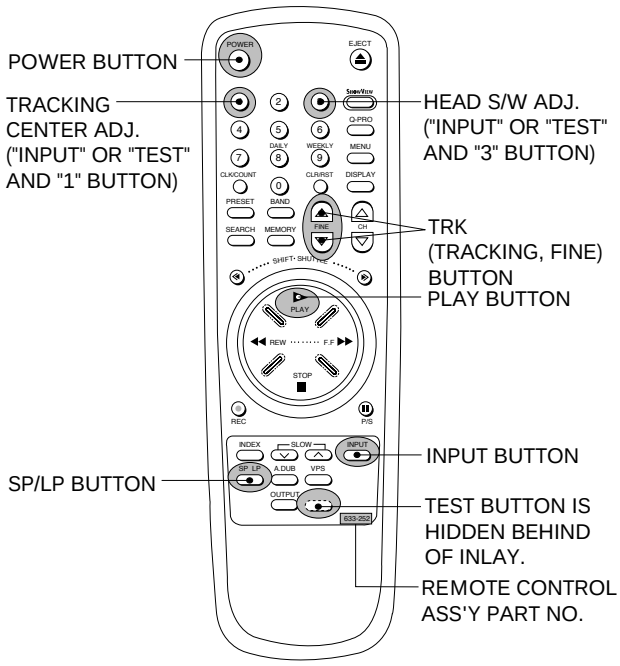

POWER BUTTON
TRACKING CENTER ADJ. ("INPUT" OR "TEST" AND "1" BUTTON)
HEAD S/W ADJ. ("INPUT" OR "TEST" AND "3" BUTTON)
TRK (TRACKING, FINE) BUTTON
PLAY BUTTON
INPUT BUTTON
SP/LP BUTTON
TEST BUTTON IS HIDDEN BEHIND OF INLAY.
REMOTE CONTROL ASS'Y PART NO.

Fig. 5-1 Remote Control Ass'y Jig for X-5/X-6 Chassis (AC93-10039Y/69099-633-252)

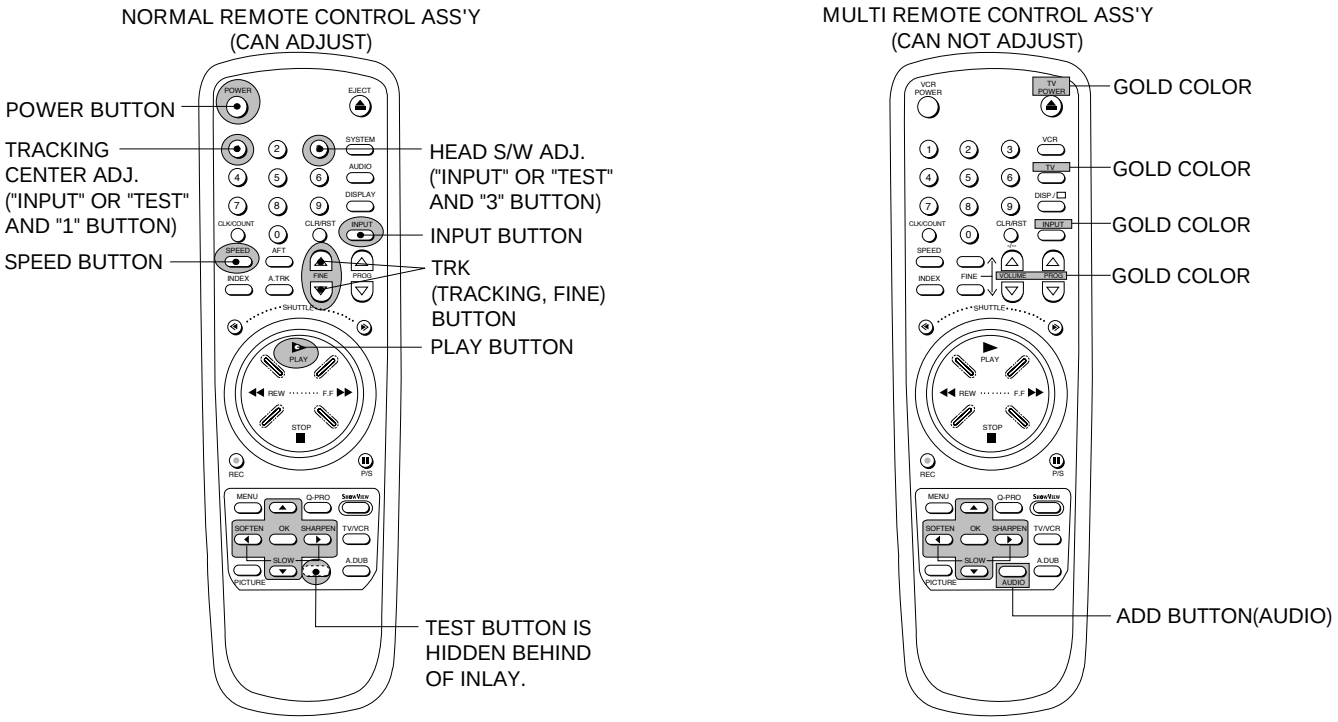

NORMAL REMOTE CONTROL ASS'Y (CAN ADJUST)
POWER BUTTON
TRACKING CENTER ADJ. ("INPUT" OR "TEST" AND "1" BUTTON)
SPEED BUTTON
HEAD S/W ADJ. ("INPUT" OR "TEST" AND "3" BUTTON)
INPUT BUTTON
TRK (TRACKING, FINE) BUTTON
PLAY BUTTON
TEST BUTTON IS HIDDEN BEHIND OF INLAY.
MULTI REMOTE CONTROL ASS'Y (CAN NOT ADJUST)
GOLD COLOR
GOLD COLOR
GOLD COLOR
GOLD COLOR
ADD BUTTON(AUDIO)

Fig. 5-2 Remote Control Ass'y for X-7/X-8 Chassis

5-2 Mechanical Adjustment

Note : Refer to the Mechanical Manual "DX7-R/DX7-RC/DX8-R/DX8-RC (AC68-20316A)" for the adjustment and confirmation of ass'y full deck.

5-2-1 The number and position of test point

Test point : TP02 (CTL Pulse)
TP03 (H'D S/W -Trigger)
TP04 (V. Envelope)
TP05 (Audio out)

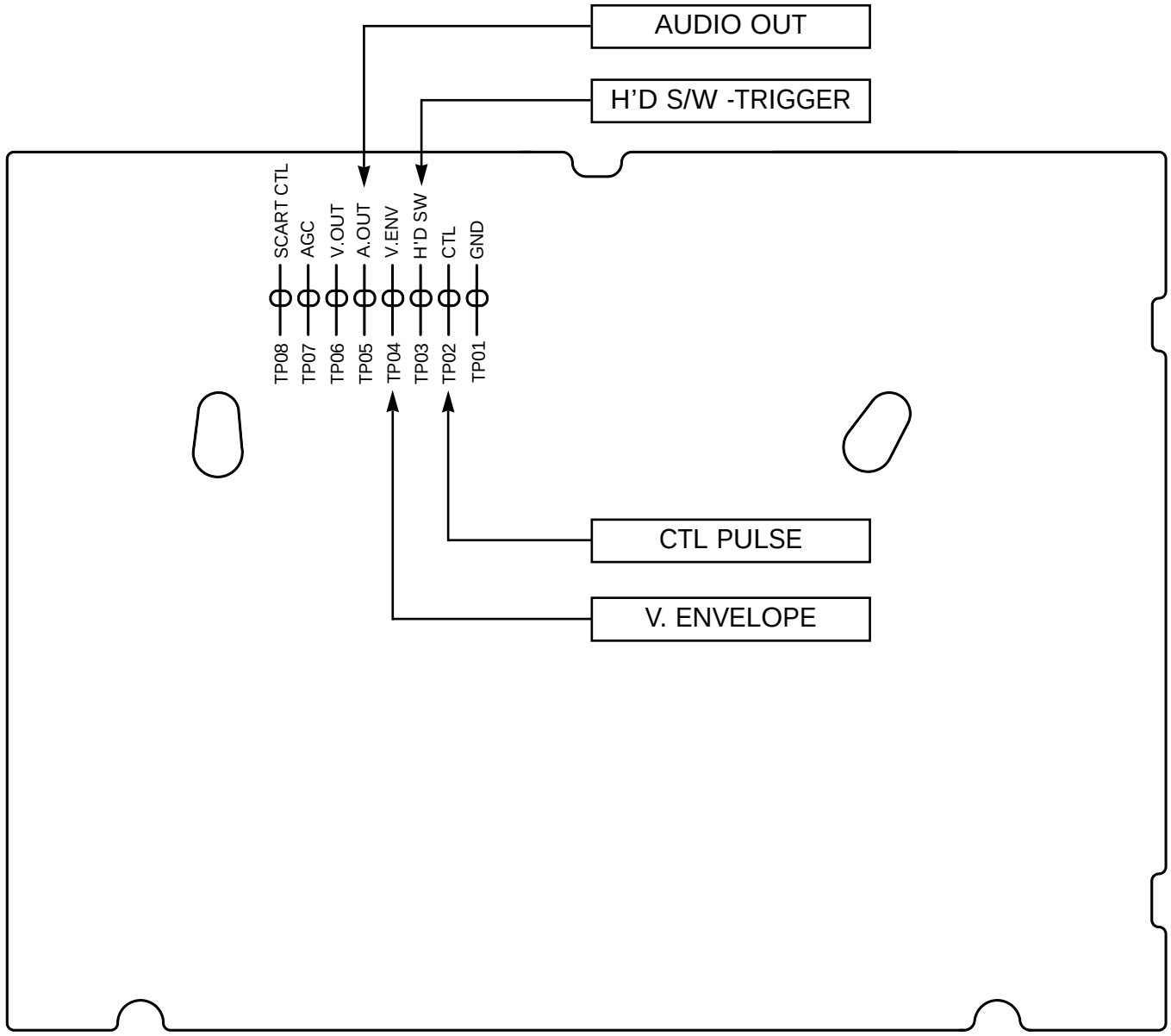


Fig. 5-3 The position of test point (Main PCB-Component side)

5-2-2 X-Point(Tracking center) adjustment (See the 2-2-1 (d) AC HEAD POSITION(X-POINT) ADJUSTMENT on page 2-3 of the mechanical manual)

5-2-2 (a) IF THE REMOTE CONTROL ASS'Y IS NOT AVAILABLE

1. Playback the colorbar alignment tape.
2. Connect CH-1 scope probe to "TP02" and CH-2 scope probe to "TP03". And then, trigger head switching pulse.
3. Set tracking preset to 11msec (2head : 2.7msec, 4, 6head : 11msec) using the "**FINE(Tracking, TRK)**" button ▲ / ▼ of the other remote control ass'y except the remote control ass'y jig for X-5/X-6 chassis and the normal remote control ass'y for X-7/X-8 chassis.
4. Connect CH-1 scope probe to "TP02" and the CH-2 to "TP03" trigger on CH-1.
5. Insert the adjusting driver (+) into X-position adjusting gear. Adjust the driver in either direction for maximum envelope waveform.

Note : Since the adjusting gear unit may be damaged, do not adjust by force when adjusting the X-point using the adjusting driver (+). After turn the X-point adjusting screw (D) counterclockwise a little, perform the adjustment. After adjustment is completed, tighten the screw.

<Setting of scope>
- Volt/div. : CH-1 = 0.1V, CH-2 = 0.2V
- Time/div. : 5msec

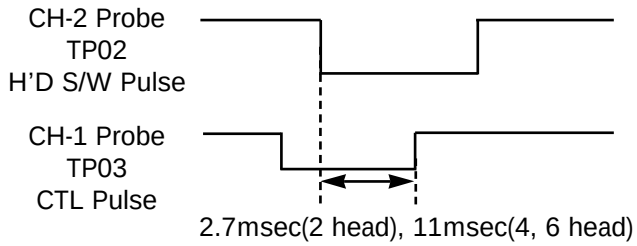


Fig. 5-4 Tracking preset adjustment

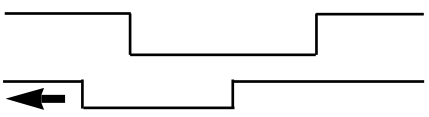
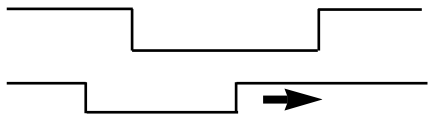
REMOTE BUTTONS	CONTROL PULSE REMOVE
PUSH ▲ TRACKING ▼	
▲ TRACKING ▼ PUSH	

Fig. 5-5 Tracking preset adjustment

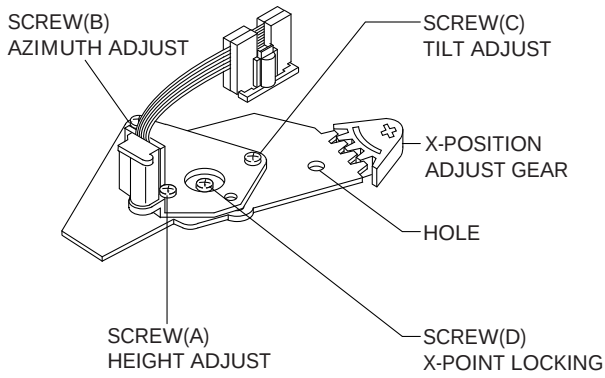


Fig. 5-6 Location of A/C Head adjustment screw

5-2-2 (b) IF THE REMOTE CONTROL ASS'Y (AC93-10039Y/69099-633-252) IS AVAILABLE

Note : How to use the "**TEST**" button.
1. Disattach the inlay of remote control ass'y. (See Fig. 5-1 and Fig. 5-2)
2. Press the "TEST" button with the pincers and the precise driver as shown in Fig. 5-1 and 5-2)

1. When using the "**INPUT**" button of remote control ass'y;

1) Simultaneously press the "**INPUT**" button and "**1**" button in PB mode.
   This will adjust the tracking center automatically.
2) Set the tracking preset using the "**FINE**(**Tracking, TRK**)" button of remote control.
3) After adjustment is completed, press the "**POWER**" button to release.

2. When using the "**TEST**" button of remote control ass'y ;

1) Simultaneously press the "**TEST**" button and "**5**" button in PB mode.
   This will adjust the tracking center automatically.
2) Set the tracking preset using the "**FINE** (**Tracking, TRK**) button of remote control.
3) After adjustment is completed, press the "**POWER**" button to release.

5-2-2 (b) IF THE NORMAL REMOTE CONTROL ASS'Y OF X-7/X-8(DX7-R/DX7-RC/ DX8-R/DX8-RC) CHASSIS IS AVAILABLE

Note 1 : Two kinds of remote control ass'y are used for X-7/X-8(DX7-R/DX7-RC/DX8-R/ DX8-RC) chassis.

1. One is a normal remote control ass'y, the other is a multi remote control ass'y
2. All adjustments are adjusted by normal remote control ass'y only.
3. For the identification of normal remote control ass'y and multi remote control ass'y, See page 5-1.

Note 2 : How to use the "**TEST**" button.

1. Disattach the inlay of remote control ass'y. (See Fig. 5-1 and Fig. 5-2)
2. Press the "TEST" button with the pincers and the precise driver as shown in Fig. 5-1 and 5-2)

1. When using the "**INPUT**" button of remote control ass'y;

1) Simultaneously press the "**INPUT**" button and "**1**" button in PB mode.
   This will adjust the tracking center automatically.
2) Set the tracking preset using the "**FINE**(**Tracking, TRK**)" button of remote control.
3) After adjustment is completed, press the "**POWER**" button to release.

2. When using the "**TEST**" button of remote control ass'y ;

1) Simultaneously press the "**TEST**" button and "**5**" button in PB mode.
   This will adjust the tracking center automatically.
2) Set the tracking preset using the "**FINE** (**Tracking, TRK**) button of remote control.
3) After adjustment is completed, press the "**POWER**" button to release.

5-3 Electrical Adjustment

5-3-1 Head S/W Adjustment

Note : Only remote control ass'y can adjust.

5-3-1 (a) IF REMOTE CONTROL ASS'Y (AC93-10039Y/69099-633-252) IS AVAILABLE

1. When using the "**INPUT**" button of remote control ass'y ;

1) Insert an SP tape into the housing ass'y.
2) Set the unit to stop mode.
3) Press the "**INPUT**" button and "**3**" button simultaneously.
4) Press the "**PLAY**" button.
5) This will adjust the head S/W point adjustment automatically.
6) After the adjustment is completed, press "**POWER**" button to release.

2. When using the "**TEST**" button of remote control ass'y ;

1) Insert an SP tape into the housing ass'y.
2) Set the unit to stop mode.
3) Press the "**TEST**" button and "**SP/LP**" button simultaneously.
4) Press the "**PLAY**" button.
5) This will adjust the head S/W point adjustment automatically.
6) After adjustment is completed, press the "**POWER**" button to release.

5-3-1 (b) IF NORMAL REMOTE CONTROL ASS'Y FOR X-7/X-8(DX7-R/DX7-RC/ DX8-R/DX8-RC) CHASSIS IS AVAILABLE

1. When using the "**INPUT**" button of remote control ass'y ;

1) Insert an SP tape into the housing ass'y.
2) Press the "**PLAY**" button.
3) Press the "**INPUT**" button and "**3**" button simultaneously.
4) This will adjust the head S/W point adjustment automatically.
5) After the adjustment is completed, press "**POWER**" button to release.

2. When using the "**TEST**" button of remote control ass'y ;

1) Insert an SP tape into the housing ass'y.
2) Press the "**PLAY**" button.
3) Press the "**TEST**" button and "**SPEED**" button simultaneously.
4) This will adjust the head S/W point adjustment automatically.
5) After adjustment is completed, press the "**POWER**" button to release.

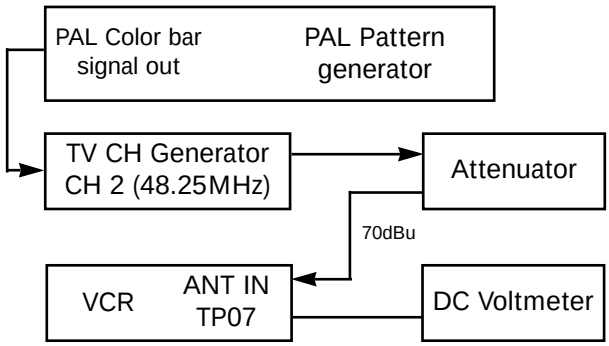
5-3-2 RF AGC Adjustment

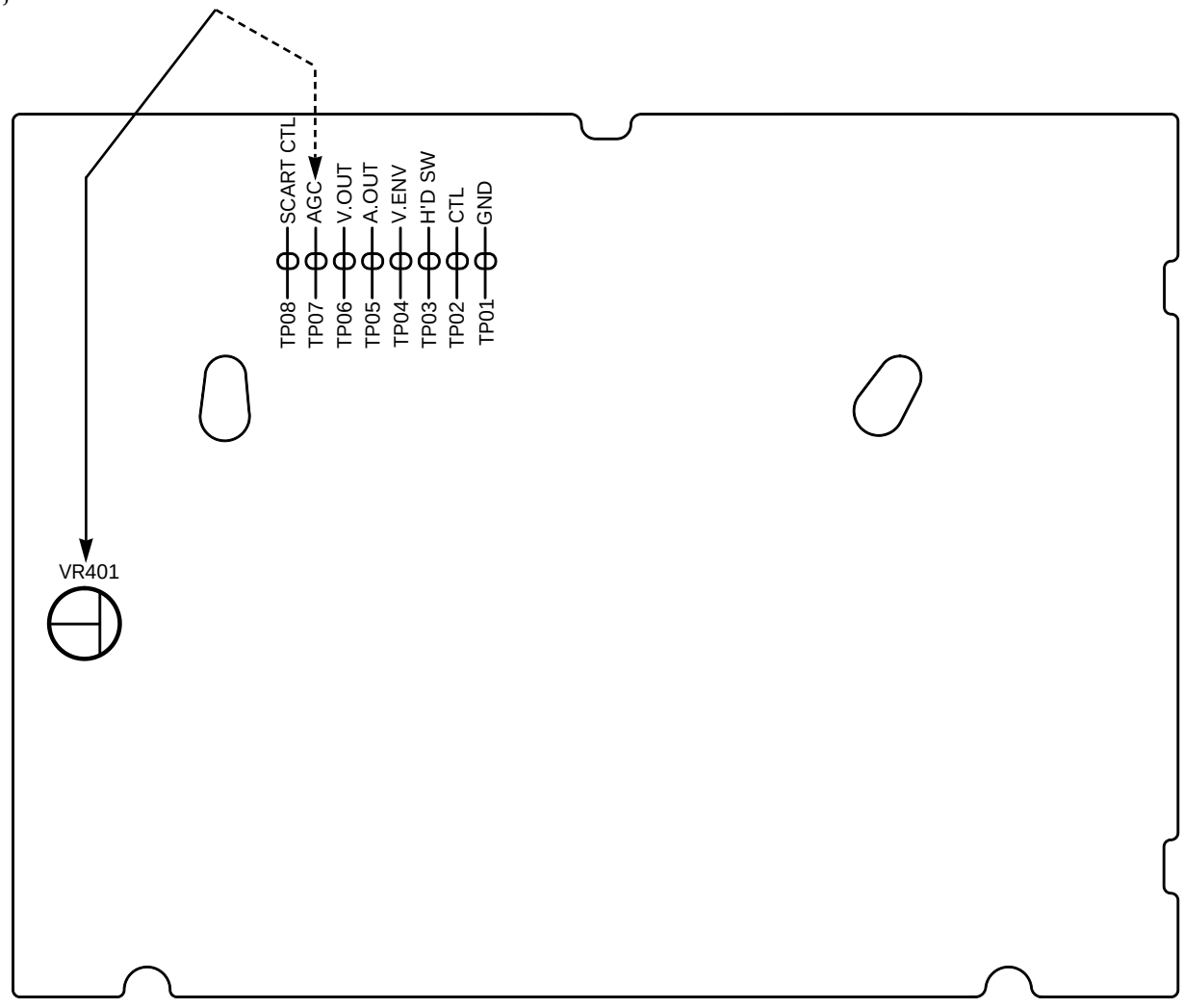
Step	Adjustment Item
1. Mode and input signal/ alignment tape 2. Test point and ADJ. part 3. Result and Remarks	ADJ. point Test point

5-3-2 (a) ADJUSTMENT PROCEDURES

1. "E-E" (stop mode), RF signal.
2. TP07 and VR401.
3. Apply PAL color bar signal to the video input terminal of the TV channel generator and set channel selector to CH 2 (48.25MHz).
4. Adjust the point signal level so that the output of attenuator is 70dBu.
5. Apply the output of attenuator to the ANT IN terminal of VCR.
6. Set the channel of VCR to CH 2.
7. Connect DC voltmeter to TP07.
8. Adjust VR401 for DC 3.7 ± 0.1V.

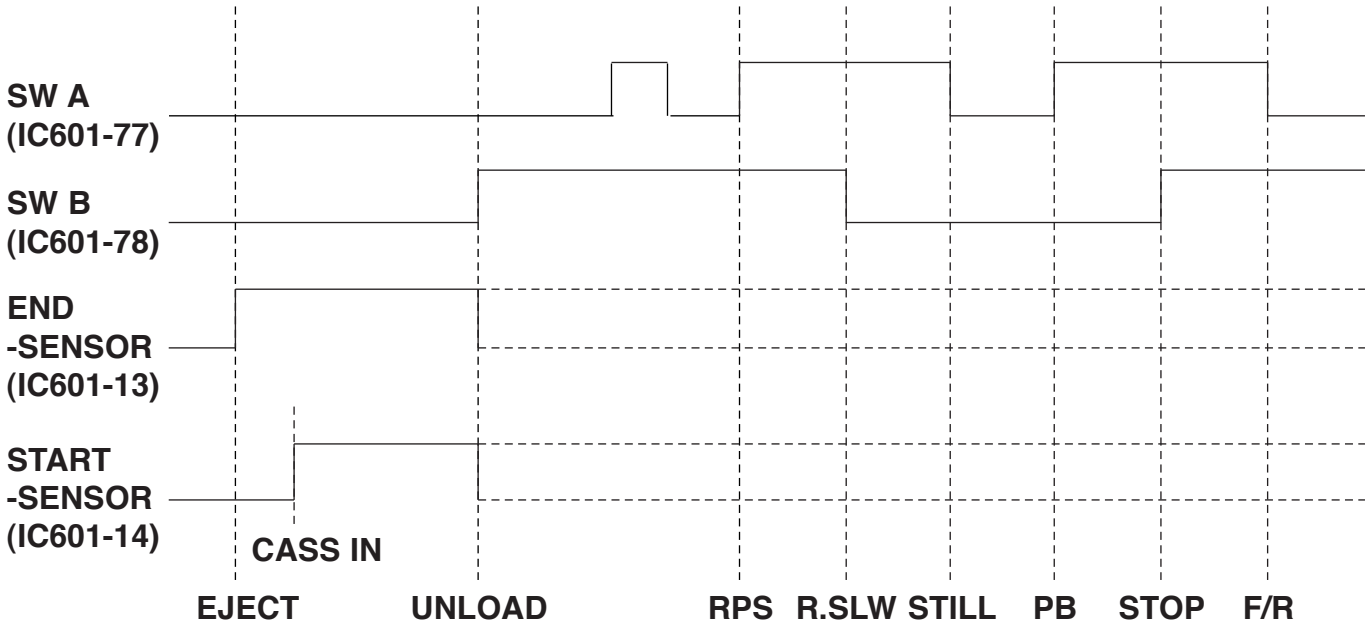
*** Composition for RF AGC adjustment**





Main PCB (Component side)

5-4 Timing Chart of Program S/W



Position	Program S/W (SW601)				Action Mode
	E/S	S/S	SW A	SW B	
Eject	L	L	L	L	Eject
Cassette IN	H	L H	L	L	Cassette IN
Unload	-	-	L	L H	Unload
R. PS	-	-	L H	H	R. PS, Z-R. PS
R. Slow	-	-	H	H L	Pinch Roller off Position
Still	-	-	H L	L	Still, Slow, F-ADV
Play	-	-	L H	L	PB, T-Stop, REC, Pause, F. PS, Z-FPS
Stop	-	-	H	L H	Stop, Power off
FF/REW	-	-	H L	H	FF, REW

MEMO

6. Exploded View and Parts List

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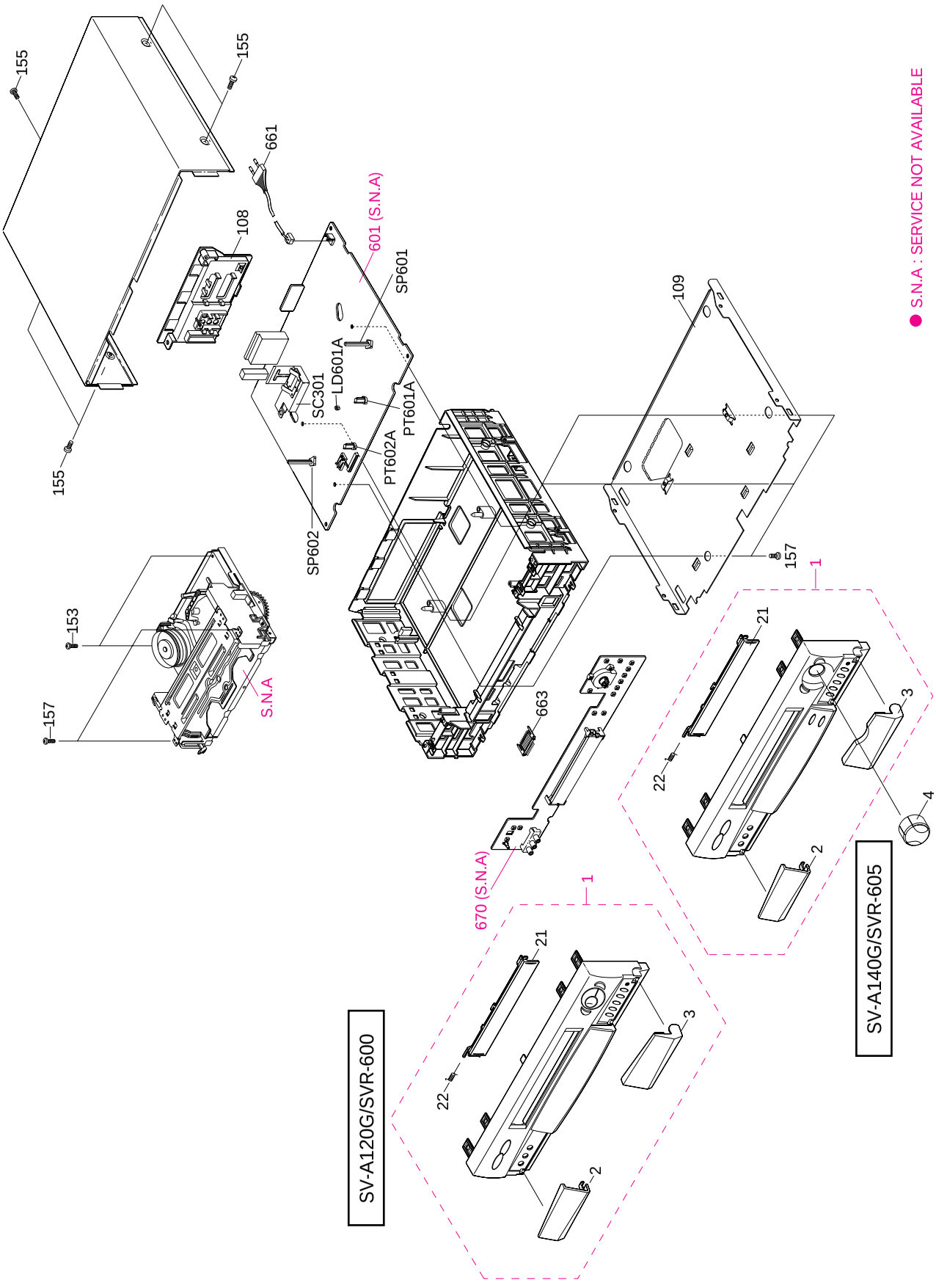
6-1 Cabinet Assembly - 6-2

6-2 Mechanical Parts (Top Side) - 6-4

6-3 Mechanical Parts (Bottom Side) - 6-6

6-4 Housing Assembly - 6-8

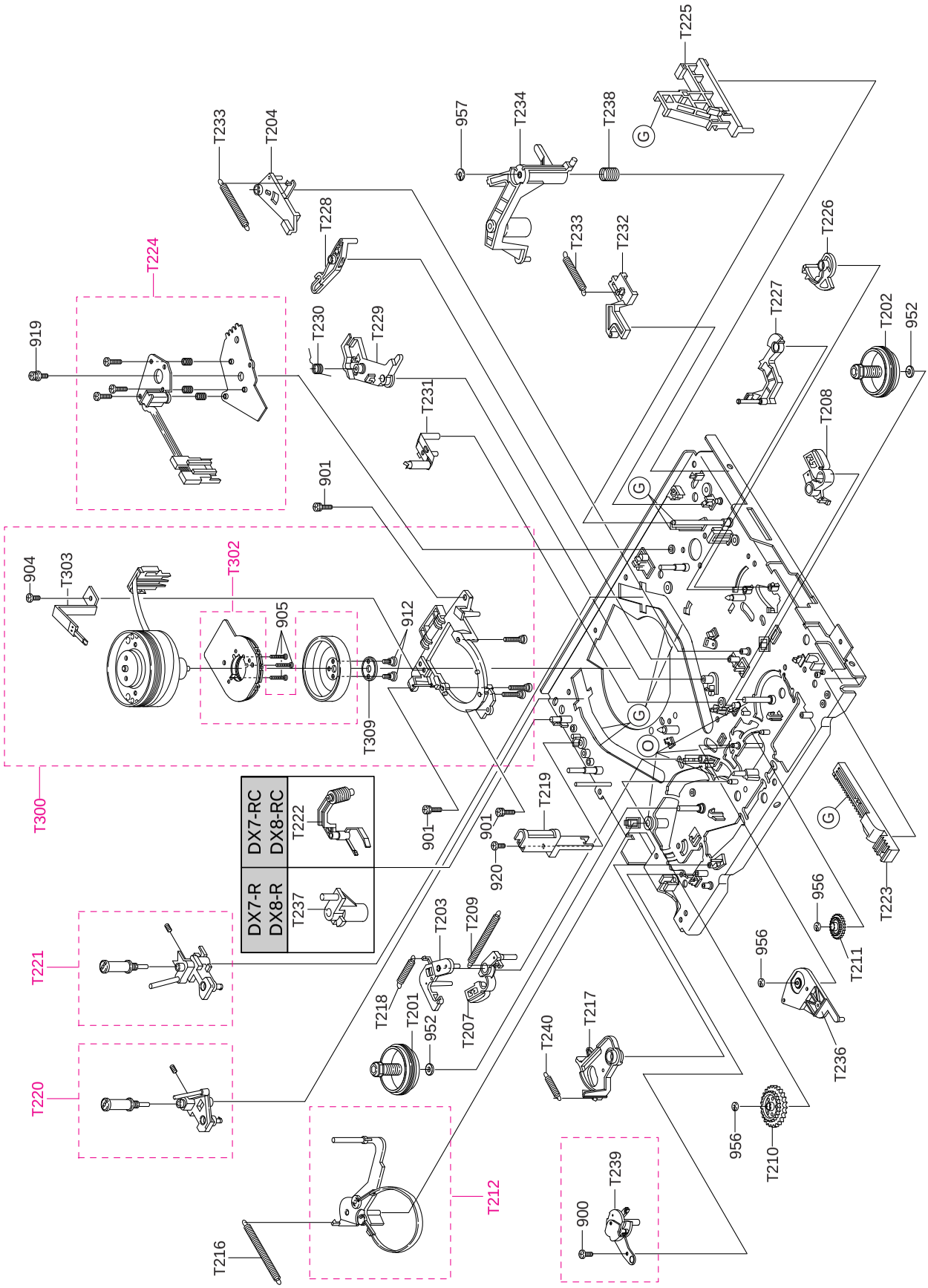
6-1 Cabinet Assembly



Loc. No	New Part No	Description and Specification	Remark
-	DO NOT ORDER	ASSY-FULL DECK (DX7-R)	(S.N.A)
1	AC98-11212N	ASSY-PANEL FRONT;SV-A120G/CIS, SVR-600	
2	AC64-50884B	DOOR-FRONT(L);SV-A120G/CIS, SVR-600	
3	AC64-50886Z	DOOR-FRONT(R);SV-A120G/CIS, SVR-600	
4	AC64-10856A	KNOB-SHUTTLE;ABS94,HB,GRY,SV-A140G/CIS, SVR-605 ONLY	
21	AC64-50883K	DOOR-CASSETTE;SV-A120G/CIS, SVR-600	
22	AC61-62003A	SPRING;-,-,SUS304,(GE/RCA),-,-	
108	AC61-10972M	CONNECTOR BOARD-ASSY;SV-A140G,HIPS94,HB,T2.5,L20	
109	AC63-32126A	COVER-BUTTOM;SV-D140F,-	
153	AC60-12126A	SCREW-BH;-,BH,-,4*12,FE,FZY,-,-	
155	AC60-12134A	SCREW-TAP BH;-,BH,-,2-4X16,-,FE	
157	AC60-10063A	SCREW-TAPTITE;BH,+,-,M3,L12,ZPC3,SWRCH18A	
601	DO NOT ORDER	ASSY-MAIN	(S.N.A)
661	AC39-10019A	POWER CORD;KKP-419C,H03VVH2-F,VDE/KEMA-KE	
663	3711-002603	CONNECTOR-HEADER;NOWALL,20P,1R,1.5MM,STRAIGHT,SN	
670	DO NOT ORDER	ASSY-F/TIMER	(S.N.A)
LD601A	AC61-22345A	HOLDER-LED;POM,-,-,-,-,-	
PT601A	AC61-22344A	HOLDER-PHOTO;POM,-,-,-,-,-	
PT602A	AC61-22344A	HOLDER-PHOTO;POM,-,-,-,-,-	
SC301	AC98-12023J	ASSY-SH/CASE TOP;SV-A140F,IS-PAL ASSY S/C TOP	
SP601	AC61-22321A	HOLDER-TR;POM,-,-,-,-,-	
SP602	AC61-22321A	HOLDER-TR;POM,-,-,-,-,-	

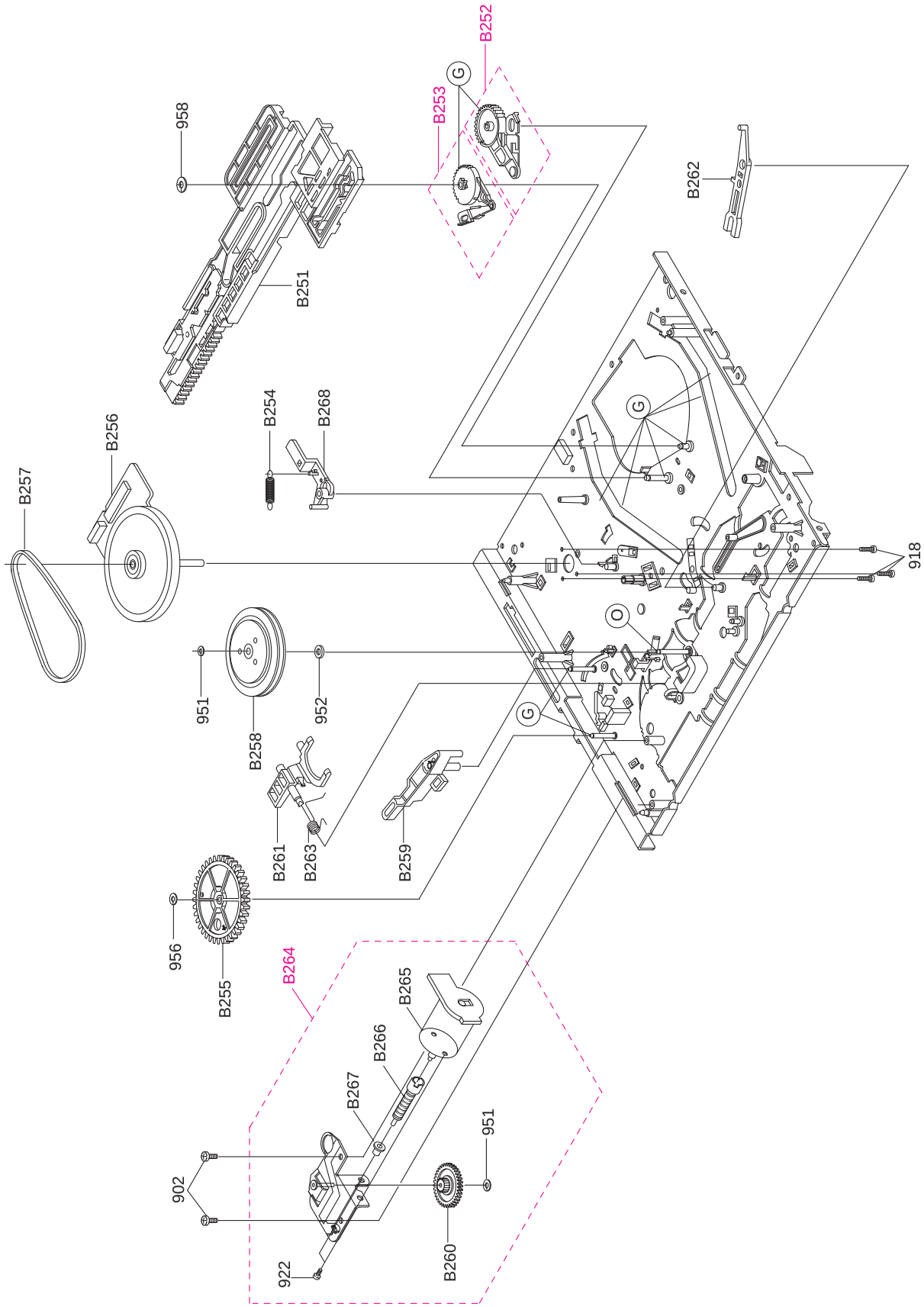
Note : Location number 1, 2, 3, 21 are only for model SV-A120G/CIS(SMSC, SALSC, SUSC), SVR-600. Please, refer to the separate information for the other models combind.

6-2 Mechanical Parts (Top Side)



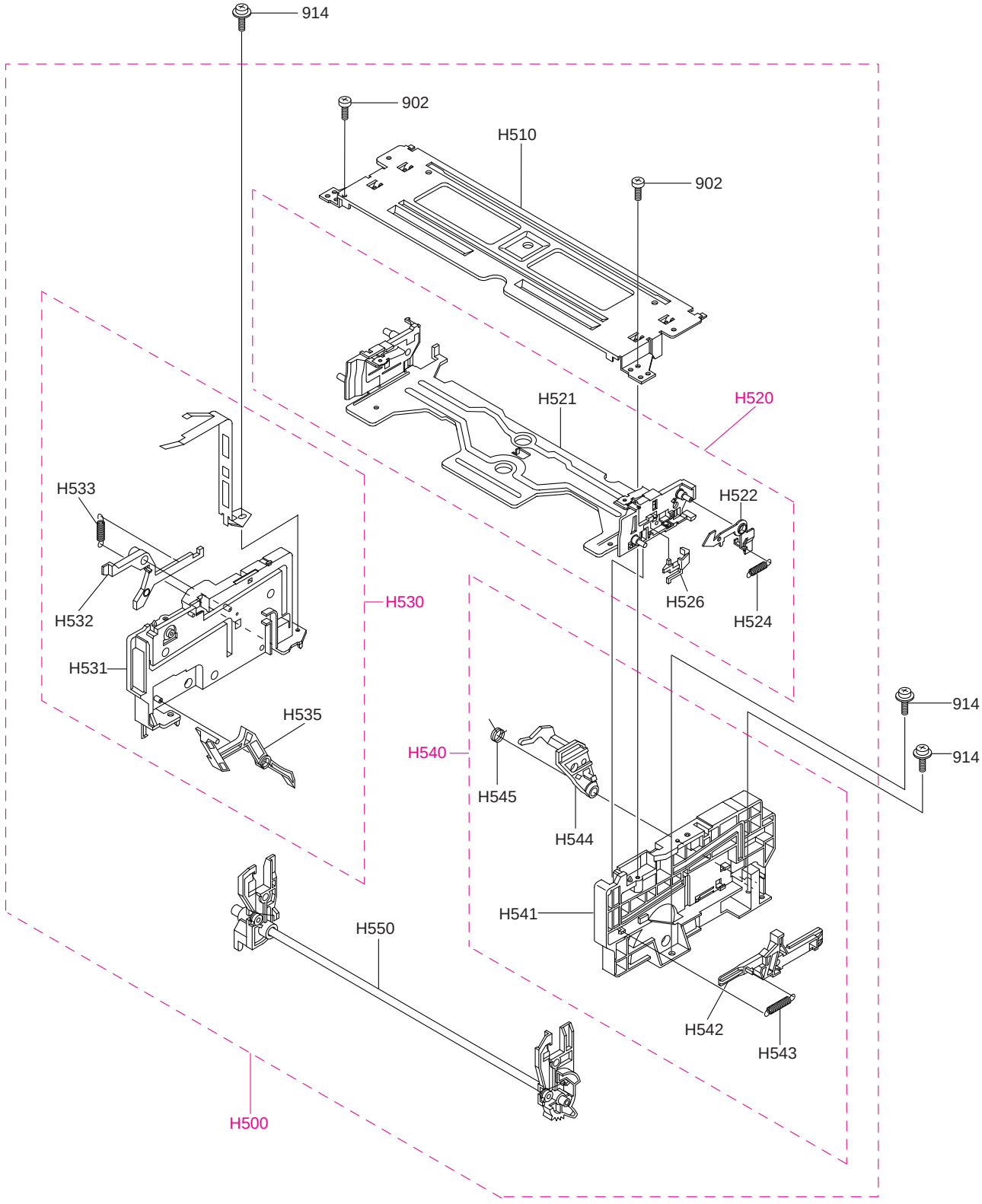
Loc. No	New Part No	Description and Specification	Remark
900	AC60-12091A	SCREW-MACHINE;FP,BH,-,M3,L4,SWRCH10A,YEL ROB	
901	AC60-10012A	SCREW-MACHINE;BH,+,M3,L8,-,FE,-,-,-	
904	AC60-12125A	SCREW-PH;-,-,-,M3X6 TAP TITE,-,-,-,-,-	
905	AC60-12096A	SCREW-MACHINE;FP,PH,-,M2.6,X10,SWRCH1-A,YEL	
912	67094-604-710	SCREW-DAMPER;M2.0X7.0 SWCM 10(MFZN2-C)	
919	AC60-10004A	SCREW-MACHINE;BH,+,M3,L8,ZPC,SWRCH18A,-,-,-	
920	AC60-10007A	SCREW-TAPPING;BH,+,M2.6,L12,-,SWRCH18A,-,-,-	
952	AC60-30018A	WASHER-PLAIN;PLAIN,M3.2,D6,T0.5,POLYSLIDER,	
956	AC60-30007A	WASHER-SLIT;PLAIN,ID2.5,OD7,T0.5,SPC1,-,-	
957	AC60-30008A	WASHER-SLIT;-,ID3.5,OD9,T0.5,SPC1,-,-	
T201	AC66-10023A	REEL-DISK L ASSY;POM,-,PACKAGE,X-5,-	
T202	AC66-10022A	REEL-DISK R (ASSY);POM,-,PACKAGE,X-5,-	
T203	AC66-30474A	BRAKE-SUB L;-,PBT,-,-,-,X-5/IS	
T204	AC66-30148A	BRAKE SUB R-ASSY;PBT,-,-,-,X5,-	
T207	AC66-30475A	BRAKE-MAIN L ASS'Y;-,POM+PELT,-,-,-,X-5/IS	
T208	AC66-30476A	BRAKE-MAIN R ASS'Y;-,POM+PELT,-,-,-,X-5/IS	
T209	AC61-60112A	SPRING- BRAKE MAIN;ES,SUS304WPB,PI0.35,ID2.8,OD4.	
T210	AC66-20073A	GEAR RELAY S-ASSY;-,PEBAX,M0.5,M48,SP,X5,-	
T211	AC66-20037A	GEAR- RELAY T;PEBAX7033,X-5,Z39,GEAR-SPUR,D1	
T212	AC66-30073A	ARM-TENSION ASSY;-,-,-,CKD,DX5-R,-	
T216	AC61-60119A	SPRING TENSION;ES,SWPB,PI0.35,ID2.1,L33(OD3.8),-,	
T217	AC66-30470A	LEVER-REC S/W;-,PBT #3300,T4.0,L32,-,(X-5/IS	
T218	AC61-62017A	SPRING-SUB BRAKE L;ES,SUS304,PI0.23,D3.5,L14.8,-,	
T219	AC33-10003P	HEAD- MAGNET F/E;MH131S,-,-,-,L51.05XW7.4XH12.3	
T220	AC66-82050A	SLIDER-G/R ASSY(S);-,-,-,-,X-5	
T221	AC66-82059A	SLIDER-G/R ASSY T;-,-,-,-,X-7(VW-31H)	
T222	AC33-10002E	HEAD-CLEANER;-,-,-,-,-,X-5	(OPTIONAL)
T223	AC66-20065A	RACK-HOUSING;L74.29,POM M90-44,BLK,M1,3.14,	
T224	AC33-10215A	HEAD-ACE ALL ASSY;-,X-7,-,-,-	
T225	AC66-80005A	SLIDER-PINCH;POM(M90-44),T2,L54.35,NAT,DX-5	
T226	AC66-30014A	LEVER-REVIEW;ZYTEL(70G-43L),T3.8,-,PCD25.6,	
T227	AC66-30099A	ARM REVIEW CKD;-,-,-,-,DX5-RV,-	
T228	AC66-30013A	LEVER-PINCH CAM;PBT 6300T,-,L45,W9,X-5,-	
T229	AC66-30003A	LEVER PINCH COUP;PBT 3300,T7.5,L45.25,-,-,X-5	
T230	AC61-60116A	SPRING- PINCH COMP;TS,SWPB,PI1.0,D6,L38(OD8),-,-	
T231	AC67-32001A	PRISM-LED;PMMA,D5,IF-850,-,-,-	
T232	AC66-82049A	SLIDER-PUSH;LUPOX 2150,T2,-,NTR,-	
T233	AC61-62016A	SPRING-SLIDE PUSH;ES,SUS304WPB,PI0.55,D3.55,L24.	
T234	AC59-90001B	UNIT-PINCH ROLLER;X-5,-,YAMAUCHI	
T236	AC66-10010A	IDLER-ASSY;PACKAGE,-,X-5,-	
T237	AC61-40054A	STOPPER-TAPE;POM M90-44,OD7,T1.5,NTR,X-5,-	(OPTIONAL)
T238	AC61-60132A	SPRING ARM PINCH;CS,SUS304WPB,PI0.4,D7.1,OD7.9,	
T239	AC66-30132A	LEVER JOG-ASSY;-,-,-,-.X5,-	(DX8-R/RC ONLY)
T240	AC61-60505A	SPRING-REC S/W;-,ES,SUS304 WPB,PI0.29,PI3.5,-	
T300	AC96-10473E	ASSY-CYLINDER;CX5-H6P/SEMA,V-2 PAL 6HEAD	(MIDDLE ASIA ONLY)
	AC96-10473F	ASSY-CYLINDER;CX5-H6P/SEMA D,V-2 PAL 6HEAD D	(CIS ONLY)
T302	AC31-12001M	MOTOR-CYLINDER;E20XL03,-,-	
T303	AC33-12004S	HEAD-BRUSH(ASSY);SECC20/20+CARBON,-,-,-,-	
T309	AC73-12001A	RETRINER-RUBBER(ASSY);SECC+SILICON,-,-,-	

6-3 Mechanical Parts (Bottom Side)



Loc. No	New Part No	Description and Specification	Remark
902	AC60-10051A	SCREW-TAPPING;BH,-,-,M3,L8,FZY	
918	AC60-10006A	SCREW-MACHINE;BH,+I90,M2.6,L7,ZPC,SWRCH18A,-	
922	67008-130-171	SCREW PH;+M3X3 FE FZY	
951	AC60-30025A	WASHER-SLIT;-,ID2.5,OD5.0,T0.5,POLY SLIDE,	
952	AC60-30018A	WASHER-PLAIN;PLAIN,M3.2,D6,T0.5,POLYSLIDER,	
956	AC60-30007A	WASHER-SLIT;PLAIN,ID2.5,OD7,T0.5,SPC1,-,-	
958	AC60-30028A	WASHER-SLIT;-,D2.5,D9.0,T0.5,NUMIRROR,-,-	
B251	AC66-80001A	SILDER- MAIN;PBT2002K,T12.4,L206.2,NAT,DX-5	
B252	AC66-20019A	GEAR-LOADING L ASSY;-,-,-,PACKAGE,-,X-5,-	
B253	AC66-20069A	GEAR LOADING R;-,-,-,-,-,X5,-	
B254	AC61-60115A	SPRING-BRAKE CAPSTAN;ES,SUS304WPB,PI0.4,D22,L16.1(	
B255	AC66-20004A	GEAR-MASTER;POM (M90-44),M 1,Z 60,SP,-,X-5	
B256	AC31-12003A	MOTOR-D.D CAPSTAN;F2QTB26,250MAX,-	
B257	AC66-62007A	BELT-CAPSTAN;5CM-70 FR,W2 T2 L88.6,-,-,-,-	
B258	AC66-20066A	CLUTCH-ASSY;-,-,-,-,-,X5,-	
B259	AC66-32185A	LEVER-SLIDER PINCH;PBT,T4,NAT,-,-,-	
B260	AC66-20016A	GEAR- WORM WHEEL;POM SW-01,M0.55/M1,Z57/Z10,GEA	
B261	AC66-30011A	LEVER- SHIFT;PBT2002K,T10.9,L35,-,-,-	
B262	AC66-30012A	LEVER- IDELR CHANGE;PBT330,T3.3,L50,-,W6.0,-	
B263	AC61-60111A	SPRING-LEVER SHIFT;TS,SWPB,PI0.7,D5.5,L13.8(OD6.9	
B264	AC59-90001A	UNIT-LOADING ASSY;X-5,-,-	
B265	66823-0060-00	MOTOR-LOADING ASSY;POM+RF370C X-5	
B266	AC66-20039A	GEAR- WORM LO;PBT 2002K,-,-,-,D4.5,3,-	
B267	AC61-20224A	HOLDER SHAFT;POM M90-44,T1.25,NAT,PI5XH5.5,	
B268	AC66-30149A	BRAKE CAPSTAN-ASSY;POM,-,-,-,X5,-	

6-4 Housing Assembly



Loc. No	New Part No	Description and Specification	Remark
902	AC60-10051A	SCREW-TAPPING;BH,-,-,M3,L8,FZY	
914	AC60-10067A	SCREW-TAPTITE;PWH,+,-,M3,L8,MFZN2-C,SWCH1018	
H500	AC61-82014A	HOUSING-ASSY;-,X7FL26280A,230X130X60,-,X-7	
H510	AC61-10006A	CHASSIS- UPPER;SECC 20/20,-,T1.0,BLK,-,X5,-	
H520	AC61-20932A	HOLDER-CASSETTE ASSY;-,X5FL06080A,-,-,-,X-7	
H521	AC61-20922A	HOLDER-CASSETTE;-,SECC T1.2,-,NAT,-,(X-5/IS)	
H522	AC66-30018A	LEVER-LOCK R;SECC 20/20,T1.2,L44,W32,-,-	
H524	AC61-60121A	SPRING-LEVER LOCK;ES,SUS304 WPB,PI0.2,D2.6,L9.9(	
H526	AC66-30019A	LEVER-KEY CASSETTE;LUCEL N109-LD,T2.5,L20,W15.2,-	
H530	62203-0105-00	CHASSIS-SIDE L(ASSY);ABS X5FL0505A X-5	
H531	AC61-10004A	CHASSIS- SIDE L;ABS HF-380,-,T10,BLK,-,X5,BLK	
H532	AC66-30004A	LEVER- LIGHT SHUTTER;LUCEL N109-LD,T2.5,L61.7,BLK,	
H533	AC61-60142A	SPRING- LIGHT;ES,SUS304WPB,PI0.2,L11.4(OD3.7	
H535	AC66-30017A	LEVER- DOOR;LUCELN109-LD,T5,L74.3,W21.1,-,	
H540	62203-0104-00	CHASSIS-SIDE R(ASSY);ABS X5FL0505A X-5	
H541	AC61-10003A	CHASSIS- SIDE R;ABS HF-380,-,T10,BLK,-,X5,BLK	
H542	AC66-80008A	SLIDER DAMPER;LUCEL N109-LD,T4,L87,-,-,-	
H543	AC61-60120A	SPRING-SLIDE DAMPER;ES,SUS 304WPB,PI0.4,D3.8,L25(O	
H544	AC66-30016A	LEVER- LID OPENER;LUCEL N109-LD,T5.0,L34.7,W16.6	
H545	AC61-60123A	SPRING-LID OPENER;TS,SWPB,PI0.55,D8.9,L15(OD10),	
H550	61403-0073-00	SHAFT-ARM(ASSY);SUM24L X5FL0405A X-5	

MEMO

7. Electrical Parts List

Loc. No	New Part No		Description and Specification	Remark
601	**DO NOT ORDER**		**ASSY-MAIN**	**(S.N.A)**
SMPS/POWER PARTS				
C1P02	2301-000383		C-FILM,PEF;10NF,5%,50V,TP,6X7X3.2MM,5MM	
C1P03	2401-001954		C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
C1P04	2401-001975		C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C1P05	2401-001511		C-AL;47UF,20%,16V,GP,-,6X7,5	
C1P06	2401-001915		C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C1P09	2401-001912		C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM	
C1P10	2202-000797		C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-	
C1S03	2305-001021	⚠	C-FILM,MPEF;100NF,20%,275V,TP,17.5X7X13.5,	
C1S04	2305-001021	⚠	C-FILM,MPEF;100NF,20%,275V,TP,17.5X7X13.5,	
C1S05	2201-000808	⚠	C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,TP,12X7.5,7	
C1S06	2201-000934	⚠	C-CERAMIC,DISC;3.3NF,20%,400V,Y5P,TP,18X8,10	
C1S08	2401-001682		C-AL;82UF,20%,400V,GP,BK,22X25,10MM	
C1S09	2301-000140		C-FILM,PEF;10NF,10%,630V,BK,16.5X9.5X5.7X	
C1S10	2201-000915		C-CERAMIC,DISC;100PF,10%,1KV,Y5P,TP,6X5,5	
C1S15	2301-000224		C-FILM,PEF;22NF,5%,50V,TP,7.4X3.9X13MM,5M	
C1S16	2201-000795		C-CERAMIC,DISC;10NF,10%,400V,Y5P,TP,15X10,5	
C1S17	2401-000970		C-AL;22UF,20%,50V,WT,TP,5X11,2MM	
C1S18	2301-000224		C-FILM,PEF;22NF,5%,50V,TP,7.4X3.9X13MM,5M	
C1S19	2401-001912		C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM	
C1S30	2401-000385		C-AL;10UF,20%,100V,GP,-,6.3X11,2.5M	
C1S31	2401-001134		C-AL;330UF,20%,35V,WT,TP,10X16,5MM	
C1S32	2401-001998		C-AL;1000UF,20%,25V,GP,TP,10X20,5MM	
C1S33	2401-001125		C-AL;330UF,20%,25V,WT,TP,10X12.5,5M	
C1S34	2401-001992		C-AL;2200UF,20%,10V,GP,TP,10X20MM,5	
C1S35	2401-001355		C-AL;470UF,20%,10V,GP,-,8X11.5,5MM	
C1S36	2401-001583		C-AL;47UF,20%,50V,WT,TP,6.3X11,2.5M	
C1S37	2401-001374		C-AL;470UF,20%,16V,WT,TP,10X12.5,2.	
C1S38	2301-000129		C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5MM	
C1S39	2301-000383		C-FILM,PEF;10NF,5%,50V,TP,6X7X3.2MM,5MM	
CN1S1	3711-000178	⚠	CONNECTOR-HEADER;1WALL,2P,1R,3.96MM,STRAIGHT,SN	
D1P01	0402-000127		DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D1P02	0402-000127		DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D1P03	0402-000127		DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D1P06	0401-000101		DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D1P20	0402-000127		DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D1S01	0402-001009	⚠	DIODE-RECTIFIER;1SR139,600V,1A,MSR	
D1S02	0402-001009	⚠	DIODE-RECTIFIER;1SR139,600V,1A,MSR	
D1S03	0402-001009	⚠	DIODE-RECTIFIER;1SR139,600V,1A,MSR	
D1S04	0402-001009	⚠	DIODE-RECTIFIER;1SR139,600V,1A,MSR	
D1S05	0402-000378		DIODE-RECTIFIER;EG01C,1000V,500MA,DO-41	
D1S07	0402-001013		DIODE-RECTIFIER;1SR153-400,400V,800MA,DO-41	
D1S30	0402-001013		DIODE-RECTIFIER;1SR153-400,400V,800MA,DO-41	
D1S31	0402-001013		DIODE-RECTIFIER;1SR153-400,400V,800MA,DO-41	
D1S32	0402-000431		DIODE-RECTIFIER;FML-M02S,200V,2.5A,TO-220F	
D1S33	0402-000431		DIODE-RECTIFIER;FML-M02S,200V,2.5A,TO-220F	
D1S34	0402-001013		DIODE-RECTIFIER;1SR153-400,400V,800MA,DO-41	
D1S35	0402-001013		DIODE-RECTIFIER;1SR153-400,400V,800MA,DO-41	
F1S01	A3065-0157	⚠	FUSE;FST 250V 1.6A 20MM SEMKO S505 C	

Loc. No	New Part No		Description and Specification	Remark
IC1P01	AC14-12001E		IC;KA7809,-,-	
IC1S1	1203-001049	⚠	IC-PWM CONTROLLER;1L0380,TO-220F,4P,10MIL,PLASTI	
IC1S2	B4161-0030	⚠	PHOTO-COUPLER;PS2561-1 ST DIP	
IC1S3	AC14-12006D	⚠	IC;KA431Z,TO-92,TAPING	
L1S01	AC29-30050A	⚠	FILTER-LINE NOISE;-,400UH,-,250V,-	
L1S02	A1151-0042	⚠	COIL-LINE FILTER;BSF-2120Z 25MH 3.2OHM	
L1S04	AC27-92001M		INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
L1S05	AC27-92001M	⚠	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
L1S30	AC27-12001N		COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
L1S31	AC27-12001N		COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
L1S32	AC27-92001M		INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
L1S33	AC27-92001M		INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
L1S34	AC27-92001M		INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
PT1S01	AC26-20120A	⚠	TRANS-SWITCHING;-,220V,UL/CSA,-,1000UH,-,SV-D1	
Q1P01	0501-000610		TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,TP,160	
Q1P02	0504-000116		TR-DIGITAL;KSR1001,NPN,300MW,4.7K-4.7K,TO	
Q1P03	0501-000610		TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,TP,160	
Q1P04	0504-000118		TR-DIGITAL;KSR1003,NPN,300MW,22K-22K,TO-9	
Q1P05	0501-000616		TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L,TP,16	
Q1P06	0501-000616		TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L,TP,16	
Q1P07	0501-000398		TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
R1P02	2004-001096		R-METAL;560OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1P03	2001-000273		R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R1P04	2001-000611		R-CARBON;3.9KOHM,5%,1/4W,AA,TP,2.4X6.4M	
R1P05	2001-000449		R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R1P06	2001-000429		R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1P07	2001-000221		R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R1P09	2004-000571		R-METAL;220OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1P10	2001-000449		R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R1S02	2003-000273		R-METAL OXIDE;33KOHM,5%,2W,AA,TP,6X16MM	
R1S03	2001-000076		R-CARBON;47KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1S06	2003-000273		R-METAL OXIDE;33KOHM,5%,2W,AA,TP,6X16MM	
R1S07	2001-000302		R-CARBON;10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1S11	2006-000262		R-CEMENT;2.7OHM,10%,2W,CB,ST,7.5X11X20.	
R1S12	2001-000076		R-CARBON;47KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1S13	2001-000076		R-CARBON;47KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1S14	2001-000076		R-CARBON;47KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1S15	2003-000148		R-METAL OXIDE;100OHM,5%,2W,AE,TP,6X16MM	
R1S30	2001-000515		R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1S31	2001-000221		R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R1S32	2001-000429		R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1S33	2004-000869		R-METAL;3KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R1S34	2004-000459		R-METAL;2.2KOHM,1%,1/8W,AA,TP,1.8X3.2M	
R1S35	2001-000440		R-CARBON;1OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VA1S01	1405-000186	⚠	VARISTOR;470V,4500A,17X12MM,TP	
VA1S02	1405-000186	⚠	VARISTOR;470V,4500A,17X12MM,TP	
ZD1P02	0403-000557		DIODE-ZENER;MTZ5.1C,5.1V,5.09-5.37V,500MW,	
ZD1S01	0403-000539		DIODE-ZENER;MTZ18C,18V,17.42-18.33V,500MW,	
ZD1S2	0403-000294		DIODE-ZENER;MTZ4.7B,4.7V,4.55-4.80V,500MW,	
SYSTEM CONTROL/SERVO PARTS				
C601	2203-002188		C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C602	2203-002188		C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C603	2203-001557		C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C604	2203-002188		C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	

Loc. No	New Part No	Description and Specification	Remark
C605	2203-001577	C-CERAMIC,CHIP MELF;150PF,10%,50V,Y5E,TP,2012,2M	
C606	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-	
C607	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C608	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5	
C609	2203-001679	C-CERAMIC,CHIP;68NF,+80-20%,25V,Y5V,TP,2012,2	
C610	2203-001679	C-CERAMIC,CHIP;68NF,+80-20%,25V,Y5V,TP,2012,2	
C6101	2203-001608	C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2012,-	
C6102	2203-001558	C-CERAMIC,CHIP MELF;100PF,10%,50V,Y5E,TP,2012,2M	
C6103	2203-001620	C-CERAMIC,CHIP MELF;27PF,5%,50V,SL,TP,2012,2MM	
C6104	2203-001620	C-CERAMIC,CHIP MELF;27PF,5%,50V,SL,TP,2012,2MM	
C6105	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C6106	2301-000392	C-FILM,PEF;15NF,5%,50V,TP,6.5X8.5X3.2MM,5	
C6107	2203-000818	C-CERAMIC,CHIP;33PF,5%,50V,NPO,TP,2012,-	
C611	2203-000533	C-CERAMIC,CHIP;2.7NF,10%,50V,X7R,TP,2012,-	
C6114	2201-000800	C-CERAMIC,DISC;120PF,5%,50V,SL,TP,5X3,5	
C6116	2203-001612	C-CERAMIC,CHIP MELF;22PF,5%,50V,SL,TP,2012,2MM	
C6117	2203-001612	C-CERAMIC,CHIP MELF;22PF,5%,50V,SL,TP,2012,2MM	
C6119	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C612	2203-001577	C-CERAMIC,CHIP MELF;150PF,10%,50V,Y5E,TP,2012,2M	
C6120	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5	
C6122	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
C6123	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C6124	2401-001325	C-AL;470NF,20%,50V,GP,TP,3X5,5	
C6126	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
C613	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C614	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5	
C615	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C616	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2012,2MM	
C617	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2012,2MM	
C618	2203-001702	C-CERAMIC,CHIP;2.2NF,5%,50V,X7R,TP,2012,-	
C619	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,2012,2MM	
C620	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,2012,2MM	
C621	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012,-	
C622	2203-001608	C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2012,-	
C623	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,2012,2MM	
C624	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,2012,2MM	
C625	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,2012,2MM	
C626	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,2012,2MM	
C627	2203-001608	C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2012,-	
C628	2203-001608	C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2012,-	
C629	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5	
C630	2301-000129	C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5MM	
C631	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C632	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C633	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C634	2401-000208	C-AL;100NF,+80-20%,5.5V,GP,12.3MM,5	
C635	2401-000199	C-AL;1000UF,20%,6.3V,GP,10X12.5,5MM	
C636	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C637	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C638	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C639	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C640	2401-001978	C-AL;47UF,20%,25V,GP,TP,6.3X5,5	
C641	2401-000753	C-AL;220NF,20%,50V,GP,TP,3X5,5	
C642	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C643	2401-001036	C-AL;33UF,20%,16V,GP,TP,6.3X5,5	

Loc. No	New Part No	Description and Specification	Remark
C644	A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF	
C645	2401-001915	C-AL;1UF,20%,50V,GP,TP,3X5,1MM	
C646	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C647	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C650	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C651	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C652	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C654	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C655	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C660	2203-001702	C-CERAMIC,CHIP;2.2NF,5%,50V,X7R,TP,2012,-	
C661	2203-001702	C-CERAMIC,CHIP;2.2NF,5%,50V,X7R,TP,2012,-	
C663	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,2012,-,TP	
C681	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C682	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C698	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C6P01	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5	
C6P07	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5	
CN601	3710-000546	CONNECTOR-SOCKET;20P,1R,1.5MM,ANGLE,SN	
CN602	3710-000405	CONNECTOR-SOCKET;2P,2R,2.5MM,-,	
CN603	3711-003148	CONNECTOR-HEADER;BOX,10P,2R,2.0MM,STRAIGHT,SN	
CN604	3711-003149	CONNECTOR-HEADER;BOX,6P,2R,2.0MM,STRAIGHT,SN	
D601	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D602	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D603	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D604	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D605	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
D606	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D607	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D608	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D609	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D610	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D6101	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D6102	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D6104	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D6105	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D6106	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D611	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
IC601	AC09-10452Y	IC-MCU;HD6433977-RA14F,1024,8,SV-A140	
IC602	AC14-12003K	IC;KA8301(N.M),-,-	
IC603	AC14-12001K	IC;KA324,-,-	
IC604	AC14-12006C	IC;KA7533,DIP,-	
IC605	1103-001020	IC-EEPROM;24LC04,4KX8BIT,DIP,8P,300MIL,-	
L601	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L602	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L603	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L604	2701-000131	INDUCTOR-AXIAL;15UH,5%,2.4X3.4MM	
L6101	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L6103	2701-000117	INDUCTOR-AXIAL;10UH,5%,2.4X3.4MM	
L620	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400,2900G	
L621	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400,2900G	
LD601	0601-000495	LED-IR;ROUND,3MM,150MW,6V,950NM,BK	
PT601	0604-000188	PHOTO-INTERRUPTER;TR,-,-,DIP-4,TR	
PT602	0604-000188	PHOTO-INTERRUPTER;TR,-,-,DIP-4,TR	
Q601	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
Q602	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	

Loc. No	New Part No	Description and Specification	Remark
Q603	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
Q604	0501-000303	TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,TO-92,-,120	
Q605	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9	
Q606	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9	
Q607	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K-4.7K,TO	
Q608	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9	
Q609	AC14-12001G	IC;KA78L05,T,-	
Q6101	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
Q6102	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
Q6106	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
Q6108	0501-000303	TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,TO-92,-,120	
R601	2001-000832	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R602	2007-000804	R-CHIP;36KOHM,5%,1/10W,DA,TP,2012	
R604	2001-000010	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R606	2001-000568	R-CARBON;27OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R607	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
R608	2007-001637	R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012	
R610	2004-000218	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R6100	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R6101	2007-001629	R-CHIP,MELF;1.8KOHM,5%,1/8W,DB,BK,2012	
R6102	2007-001497	R-CHIP,MELF;5.6KOHM,5%,1/8W,DB,BK,2012	
R6103	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012	
R6104	2001-000773	R-CARBON;470KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R6105	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6106	2007-001586	R-CHIP,MELF;1MOHM,5%,1/8W,DB,BK,2012	
R6107	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
R6109	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R6110	2007-001503	R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012	
R6111	2007-001497	R-CHIP,MELF;5.6KOHM,5%,1/8W,DB,BK,2012	
R6112	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6113	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6114	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R6115	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
R6116	2007-007166	R-CHIP,MELF;91KOHM,5%,1/8W,DB,BK,2012	
R6117	2001-000850	R-CARBON;560KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R6119	2007-001486	R-CHIP,MELF;56KOHM,5%,1/8W,DB,BK,2012	
R612	2004-000218	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R6120	2007-001586	R-CHIP,MELF;1MOHM,5%,1/8W,DB,BK,2012	
R6121	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6122	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012	
R6123	2007-001503	R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012	
R6124	2001-000633	R-CARBON;30KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6125	2007-001540	R-CHIP,MELF;30KOHM,5%,1/8W,DB,BK,2012	
R6129	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6131	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6132	2001-000534	R-CARBON;240OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6133	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R6134	2007-001486	R-CHIP,MELF;56KOHM,5%,1/8W,DB,BK,2012	
R614	2007-001572	R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012	
R615	2007-001572	R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012	
R616	2001-000832	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R617	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012	
R618	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012	
R619	2007-001557	R-CHIP,MELF;270OHM,5%,1/8W,DB,BK,2012	
R620	2001-000832	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc. No	New Part No	Description and Specification	Reamrk
R621	61048-177-563	R-CARBON;RD 1/8 T 563-J	
R624	2007-001627	R-CHIP,MELF;100KOHM,5%,1/8W,DB,BK,2012	
R625	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R626	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
R627	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R628	2007-001572	R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012	
R629	2007-001572	R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012	
R630	2001-000435	R-CARBON;1MOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R631	2007-001591	R-CHIP,MELF;18KOHM,5%,1/8W,DB,BK,2012	
R632	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R633	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R634	2007-001612	R-CHIP,MELF;12KOHM,5%,1/8W,DB,BK,2012	
R635	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
R636	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R637	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R638	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R640	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R641	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R642	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R643	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R644	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R645	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R646	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R648	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
R649	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R651	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R652	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R653	61048-177-563	R-CARBON;RD 1/8 T 563-J	
R654	61048-177-563	R-CARBON;RD 1/8 T 563-J	
R655	2007-001557	R-CHIP,MELF;270OHM,5%,1/8W,DB,BK,2012	
R656	2001-000605	R-CARBON;3.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R657	2007-001596	R-CHIP,MELF;16KOHM,5%,1/8W,DB,BK,2012	
R658	2007-001568	R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012	
R659	2007-001596	R-CHIP,MELF;16KOHM,5%,1/8W,DB,BK,2012	
R660	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R661	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R662	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R663	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R664	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R665	2001-000577	R-CARBON;2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R666	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R667	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R668	2007-001557	R-CHIP,MELF;270OHM,5%,1/8W,DB,BK,2012	
R669	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012	
R670	2001-000435	R-CARBON;1MOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R671	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
R672	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R673	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R674	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R675	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
R676	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R677	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R678	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R679	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R681	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	

Loc. No	New Part No	Description and Specification	Remark
R682	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R683	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R684	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R685	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R686	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R687	2007-001586	R-CHIP,MELF;1MOHM,5%,1/8W,DB,BK,2012	
R688	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R689	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R690	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
R691	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
R692	2001-000837	R-CARBON;51KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R693	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R694	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R695	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R696	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R697	2003-000259	R-METAL OXIDE;3.9OHM,5%,2W,AE,TP,6X16MM	
R698	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS601	3409-000176	SWITCH-DETECTOR;30VDC,100MA,SPST,-,-	
S601	0603-000112	PHOTO-TR;NPN,35V,6V,50MA,75MW,-	
S602	0603-000112	PHOTO-TR;NPN,35V,6V,50MA,75MW,-	
SW601	AC34-22001E	SWITCH-PROGRAM;MXS00281MLB0,-,-,-,-,-,-	
XT601	2801-003293	CRYSTAL-UNIT;10MHZ,50PPM,28-AAA,16PF,50OHM,	
XT602	64539-021-009	CRYSTAL;32.768KHZ	
XT6102	2801-003311	CRYSTAL-UNIT;17.734475MHZ,50PPM,28-AAA,16PF	
AUDIO/VIDEO PARTS			
C305	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C306	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C307	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C308	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C309	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C310	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C311	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C312	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C313	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C314	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C315	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C316	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C317	2401-001912	C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM	
C318	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C319	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-	
C320	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C321	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C322	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C324	B1102-0113	C-FILM;CQ 922 P 100V 473-J CQ298PVT473J ECQV473J	
C325	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C326	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-	
C327	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C328	2203-001620	C-CERAMIC,CHIP MELF;27PF,5%,50V,SL,TP,2012,2MM	
C329	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C330	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-	
C331	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C332	2203-001524	C-CERAMIC,CHIP;47PF,5%,50V,NPO,TP,2012,-	
C333	2203-000840	C-CERAMIC,CHIP;390PF,5%,50V,NPO,TP,2012,-	
C335	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,2012,2MM	

Loc. No	New Part No	Description and Specification	Remark
C336	2203-001606	C-CERAMIC,CHIP MELF;220PF,10%,50V,Y5P,TP,2012,2M	
C337	2203-000540	C-CERAMIC,CHIP;200PF,5%,50V,NPO,TP,2012,-	
C338	2203-001589	C-CERAMIC,CHIP MELF;18PF,5%,50V,SL,TP,2012,2MM	
C339	2203-001558	C-CERAMIC,CHIP MELF;100PF,10%,50V,Y5E,TP,2012,2M	
C340	2401-001965	C-AL;470NF,20%,50V,-,BK,4X7MM,1.5MM	
C341	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
C342	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5	
C343	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C344	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
C345	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5	
C346	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C347	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
C348	2401-001912	C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM	
C349	2401-001912	C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM	
C350	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-	
C351	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C352	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C353	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-	
C355	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-	
C356	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C357	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C358	2401-001912	C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM	
C359	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C360	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5	
C361	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C362	2401-001912	C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM	
C363	2203-001608	C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2012,-	
C364	2401-001912	C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM	
C366	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-	
C367	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C368	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,2012,-,TP	
C369	2401-001912	C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM	
C370	B1102-0113	C-FILM;CQ 922 P 100V 473-J CQ298PVT473J ECQV473J	
C371	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-	
C373	2301-000439	C-FILM,PEF;3NF,5%,50V,TP,5.5X7X3MM,5MM	
C374	2202-000781	C-CERAMIC,MLC-AXIAL;100PF,10%,50V,Y5P,TP,3.5X19,	
C380	2401-001905	C-AL;10UF,20%,16V,BP,BK,6X11MM,2.5M	
C3A01	2401-001893	C-AL;100UF,20%,16V,-,TP,6.3X7MM,5	
C3A02	2301-000392	C-FILM,PEF;15NF,5%,50V,TP,6.5X8.5X3.2MM,5	
C3A03	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C3A04	2301-000299	C-FILM,PEF;6.8NF,5%,100V,5.8*12.5MM,5MM,T	
C3A05	2301-000161	C-FILM,PEF;12NF,5%,50V,TP,6.5X5.5X3.0X5,5	
C3A06	2301-000408	C-FILM,PEF;2.7NF,5%,50V,TP,5.5X7X3MM,5MM	
C3A07	2301-000402	C-FILM,PEF;1NF,5%,50V,TP,5X7X2.8MM,5MM	
C3A08	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
C3A09	2401-003122	C-AL;4.7UF,20%,50V,LL,TP,4X7,1.5	
C3A10	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C3A11	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C3A12	2301-000383	C-FILM,PEF;10NF,5%,50V,TP,6X7X3.2MM,5MM	
C3A13	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3.5X19,-	
C3A15	2401-001912	C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM	
C3A16	2401-001912	C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM	
C3A17	2202-000855	C-CERAMIC,MLC-AXIAL;6.8NF,30%,16V,Y5R,TP,3.5X1.9	
C3A18	2202-000855	C-CERAMIC,MLC-AXIAL;6.8NF,30%,16V,Y5R,TP,3.5X1.9	
C3A19	2202-000856	C-CERAMIC,MLC-AXIAL;8.2NF,30%,16V,Y5R,TP,3.5X1.9	

Loc. No	New Part No	Description and Specification	Remark
C3A21	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C3A22	2301-000217	C-FILM,PEF;220NF,5%,50V,TP,8.0X9.5X4.5X5,	
C3A23	2401-001169	C-AL;33UF,20%,16V,GP,-,6.3X7,2.5MM	
C3A25	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5	
C3A26	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C3A27	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C3A28	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C3A29	2301-000383	C-FILM,PEF;10NF,5%,50V,TP,6X7X3.2MM,5MM	
C3A30	2301-000392	C-FILM,PEF;15NF,5%,50V,TP,6.5X8.5X3.2MM,5	
C5D01	B1102-0113	C-FILM;CQ 922 P 100V 473-J CQ298PVT473J ECQV473J	
C5D02	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C5D03	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C5D04	2301-000264	C-FILM,PEF;4.7NF,5%,50V,TP,6.5X5.5X3.0X5,	
C5D05	2301-000383	C-FILM,PEF;10NF,5%,50V,TP,6X7X3.2MM,5MM	
CN301	3708-000391	CONNECTOR-FPC/FC/PIC;10P,1.25MM,STRAIGHT,SN	
CN3A01	3708-001053	CONNECTOR-FPC/FC/PIC;7P,1.25MM,STRAIGHT,SN	
CN3A02	3710-000404	CONNECTOR-SOCKET;2P,2R,2.0MM,-,	
D301	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
FL3A01	AC27-80100A	COIL-OSC;126QN-K5272YHC=K,-,AM	
FL5D01	AC27-82001C	COIL-BIAS OSC;B02,W(TOKO)VX1850,-	
IC301	1204-001057	IC-SIGNAL PROCESSOR;SS11511M,QFP,80P,-,PLASTIC,7	CIS OPTION
	1204-001056	IC-SIGNAL PROCESSOR;SS11501M,QFP,80P,-,PLASTIC,7	MIDLIE ASIA OPTION
IC302	AC14-12013F	IC-LINEAR;LA7416,DIP,BULK	
IC303	1209-001023	IC-DELAY LINE;SS23377M,SOP,14P,225MIL,PLASTI	CIS OPTION
	1209-001024	IC-DELAY LINE;SS23378M,SOP,14P,225MIL,PLASTI	MIDLIE ASIA OPTION
L301	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L303	2701-000206	INDUCTOR-AXIAL;56UH,5%,2.4X3.4MM	
L304	2701-000206	INDUCTOR-AXIAL;56UH,5%,2.4X3.4MM	
L308	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L3A02	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L3A03	2702-000120	INDUCTOR-RADIAL;15MH,5%,6.2X7.4MM	
L3A04	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L5D01	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
Q302	0501-000303	TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,TO-92,-,120	
Q303	0501-000303	TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,TO-92,-,120	
Q304	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
Q306	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9	
Q307	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9	
Q308	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9	
Q309	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
Q310	0501-000303	TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,TO-92,-,120	
Q312	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
Q3A01	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
Q3A02	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
Q3A03	0501-000010	TR-SMALL SIGNAL;KSC1008-Y,NPN,80V,60V,700MA,80	
Q3A04	0501-000303	TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,TO-92,-,120	
Q3A05	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
Q3A06	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9	
Q5D01	0501-000010	TR-SMALL SIGNAL;KSC1008-Y,NPN,80V,60V,700MA,80	
Q5D02	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K-4.7K,TO	
Q5D03	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9	
R301	2001-000302	R-CARBON;10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R302	2001-000302	R-CARBON;10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R303	2007-001568	R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012	
R304	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc. No	New Part No	Description and Specification	Remark
R305	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	
R306	61048-177-563	R-CARBON;RD 1/8 T 563-J	
R307	2007-001627	R-CHIP,MELF;100KOHM,5%,1/8W,DB,BK,2012	
R309	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012	
R310	2007-001546	R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012	
R311	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
R312	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012	
R313	2007-001513	R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012	
R314	2007-001557	R-CHIP,MELF;270OHM,5%,1/8W,DB,BK,2012	
R315	2007-001546	R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012	
R316	2007-001458	R-CHIP,MELF;8.2KOHM,5%,1/8W,DB,BK,2012	
R317	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012	
R318	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012	
R319	2007-001521	R-CHIP,MELF;390OHM,5%,1/8W,DB,BK,2012	
R320	2007-001637	R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012	
R321	2007-001521	R-CHIP,MELF;390OHM,5%,1/8W,DB,BK,2012	
R322	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R323	2007-001513	R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012	
R324	2007-001633	R-CHIP,MELF;1.5KOHM,5%,1/8W,DB,BK,2012	
R325	2007-001536	R-CHIP,MELF;330OHM,5%,1/8W,DB,BK,2012	
R327	2007-001633	R-CHIP,MELF;1.5KOHM,5%,1/8W,DB,BK,2012	
R328	2007-001637	R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012	
R329	2007-001584	R-CHIP,MELF;2.2KOHM,5%,1/8W,DB,BK,2012	
R331	2007-001584	R-CHIP,MELF;2.2KOHM,5%,1/8W,DB,BK,2012	
R332	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
R333	2007-001458	R-CHIP,MELF;8.2KOHM,5%,1/8W,DB,BK,2012	
R334	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA.TP,2012	MIDLIE ASIA OPTION
R335	2007-001616	R-CHIP,MELF;120KOHM,5%,1/8W,DB,BK,2012	
R337	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R338	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R339	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R340	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R341	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R350	2007-001629	R-CHIP,MELF;1.8KOHM,5%,1/8W,DB,BK,2012	
R351	2007-001616	R-CHIP,MELF;120KOHM,5%,1/8W,DB,BK,2012	
R399	2007-001536	R-CHIP,MELF;330OHM,5%,1/8W,DB,BK,2012	
R3A02	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A03	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A04	2007-001612	R-CHIP,MELF;12KOHM,5%,1/8W,DB,BK,2012	
R3A05	2007-001584	R-CHIP,MELF;2.2KOHM,5%,1/8W,DB,BK,2012	
R3A06	2007-001584	R-CHIP,MELF;2.2KOHM,5%,1/8W,DB,BK,2012	
R3A07	2001-000458	R-CARBON;2.2OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A08	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A09	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A10	2007-001633	R-CHIP,MELF;1.5KOHM,5%,1/8W,DB,BK,2012	
R3A11	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012	
R3A12	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A13	2001-000645	R-CARBON;330KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A14	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A15	2007-001612	R-CHIP,MELF;12KOHM,5%,1/8W,DB,BK,2012	
R3A16	2007-001612	R-CHIP,MELF;12KOHM,5%,1/8W,DB,BK,2012	
R3A17	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A19	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A22	2007-001486	R-CHIP,MELF;56KOHM,5%,1/8W,DB,BK,2012	
R3A24	2001-000454	R-CARBON;2.2MOHM,5%,1/8W,AA,TP,1.8X3.2M	

Loc. No	New Part No	Description and Specification	Remark
R3A25	2007-007166	R-CHIP,MELF;91KOHM,5%,1/8W,DB,BK,2012	
R3A27	2007-001513	R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012	
R3A28	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012	
R3A29	2007-001517	R-CHIP,MELF;3KOHM,5%,1/8W,DB,BK,2012	
R3A30	2001-000800	R-CARBON;5.1KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R3A31	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A32	2001-000904	R-CARBON;620OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R5D01	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R5D02	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R5D03	2001-000745	R-CARBON;4.7OHM,5%,1/8W,AA,TP,1.8X3.2MM	
XT301	B1280-0169	CRYSTAL;4.433619MHZ HC-49/U-S 15PPM SERIES TYPE	
XT302	64539-012-009	CRYSTAL;3.579545 HC/49U(8PF) TAPG	MIDLIE ASIA OPTION
IF PARTS			
C401	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C402	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C404	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-	
C409	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C410	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C411	2301-000129	C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5MM	
C412	2203-000429	C-CERAMIC,CHIP;18PF,5%,50V,NPO,2012,-,TP	
C414	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C415	2301-000224	C-FILM,PEF;22NF,5%,50V,TP,7.4X3.9X13MM,5M	
C416	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C417	2202-000205	C-CERAMIC,MLC-AXIAL;22PF,5%,50V,SL,1.9X3.5,-,TP	
C418	2201-000837	C-CERAMIC,DISC;39PF,5%,50V,CH,TP,5X3,5	
C419	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
C421	2202-000787	C-CERAMIC,MLC-AXIAL;10PF,5%,50V,Y5P,TP,3.5X19,-	
C423	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C425	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C426	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C427	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C428	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C429	2201-000918	C-CERAMIC,DISC;10NF,+80-20%,50V,Y5V,TP,6.5X3,	
C431	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X19,-,TP	
C4A1	2401-000475	C-AL;10UF,20%,50V,GP,-,5X11,2MM	
C4A2	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C4A4	2301-000129	C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5MM	
C4A5	2301-000129	C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5MM	
C4A6	2301-000129	C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5MM	
C4A7	2401-001364	C-AL;470UF,20%,16V,GP,TP,10X12MM,5M	
C4A8	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C4A9	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
D410	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41	
FL401	2904-000268	FILTER-SAW AV;38.9MHZ,SIP5P,ST,17.6DB,PAL-D/	
FL403	2903-000193	FILTER-CERAMIC;BR,6.0MHz	
FL404	2903-000185	FILTER-CERAMIC;BP,5.5MHZ,+-75KHZ,6DB,-,TP	
FL406	B1243-0045	FILTER-CERAMIC;SP 6.5M SFE6.5MB TAPG	
FL407	2903-000178	FILTER-CERAMIC;BP,5.5MHZ,-,-,-,TP,-	
FL408	2903-000199	FILTER-CERAMIC;TR,6.5MHZ,70KHZ,-,-,TP	
IC401	AC14-12011Q	IC-LINEAR;TDA9800,DIP,NEG DEMOD	
IC4A1	AC14-12003P	IC;LA7920,-,-	
IC4A2	AC14-12003T	IC-L;KA33V TAPG,-,-	
L401	2701-000145	INDUCTOR-AXIAL;1UH,5%,2.4X3.4MM	
L402	2701-000145	INDUCTOR-AXIAL;1UH,5%,2.4X3.4MM	

Loc. No	New Part No	Description and Specification	Remark
L403	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L404	2701-000160	INDUCTOR-AXIAL;22UH,5%,2.4X3.4MM	
L405	2702-000185	INDUCTOR-RADIAL;8.2UH,5%,6X6.4MM	
L415	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400,2900G	
L4A1	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
Q401	0501-000436	TR-SMALL SIGNAL;KTC3197,NPN,625MW,TO-92,TP,20-	
Q402	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
Q4A1	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
R402	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R403	2007-001637	R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012	
R404	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
R405	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R406	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R410	2001-000857	R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R414	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	
R415	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R416	2001-000362	R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R417	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R418	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R419	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R420	2007-000904	R-CHIP;430OHM,5%,1/10W,DA,TP,2012	
R421	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012	
R422	2007-001536	R-CHIP,MELF;330OHM,5%,1/8W,DB,BK,2012	
R423	2007-001536	R-CHIP,MELF;330OHM,5%,1/8W,DB,BK,2012	
R424	2007-001574	R-CHIP,MELF;20KOHM,5%,1/8W,DB,BK,2012	
R425	2007-001503	R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012	
R426	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012	
R428	2007-001568	R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012	
R429	2007-001568	R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012	
R432	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R435	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
R436	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R4A0	2001-000595	R-CARBON;3.3MOHM,5%,1/8W,AA,TP,1.8X3.2M	
R4A1	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012	
R4A2	2001-000718	R-CARBON;4.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R4A3	2007-001568	R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012	
R4A4	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
R4A5	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	
R4A6	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	
R4A7	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	
R4A8	2001-000595	R-CARBON;3.3MOHM,5%,1/8W,AA,TP,1.8X3.2M	
R4A9	2001-000595	R-CARBON;3.3MOHM,5%,1/8W,AA,TP,1.8X3.2M	
R4B1	2007-001568	R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012	
R4B2	2007-001568	R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012	
TL401	AC26-12001A	TRANS-DET;9MM,0UH,BLK,8PF,77.9MHZ,M7T1,S	
U401	AC40-30070E	TM-BLOCK;MTSH6HD32,PAL-G/K(HYPER),108	
VR401	2103-000307	VR-SEMI;22KOHM,30%,1/10W,TOP	
W109	2701-000117	INDUCTOR-AXIAL;10UH,5%,2.4X3.4MM	
Hi-Fi AUDIO PARTS			
C502	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C503	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C504	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C505	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C507	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	

Loc. No	New Part No	Description and Specification	Remark
C508	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C509	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C510	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C511	2401-001893	C-AL;100UF,20%,16V,-,TP,6.3X7MM,5	
C512	2203-002188	C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-	
C515	2203-005197	C-CERAMIC,CHIP;470NF,+80-20,25V,Y5V,BK,2010,-	
C516	2203-001597	C-CERAMIC,CHIP;2.2NF,20%,25V,X7S,TP,2012,2MM	
C517	2203-001597	C-CERAMIC,CHIP;2.2NF,20%,25V,X7S,TP,2012,2MM	
C518	2203-001597	C-CERAMIC,CHIP;2.2NF,20%,25V,X7S,TP,2012,2MM	
C519	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C520	2401-001893	C-AL;100UF,20%,16V,-,TP,6.3X7MM,5	
C521	2203-005197	C-CERAMIC,CHIP;470NF,+80-20,25V,Y5V,BK,2010,-	
C523	A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF	
C524	A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF	
C525	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012,-	
C526	A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF	
C527	2202-000825	C-CERAMIC,MLC-AXIAL;680PF,10%,50V,Y5P,TP,3.5X19,	
C528	2203-001679	C-CERAMIC,CHIP;68NF,+80-20%,25V,Y5V,TP,2012,2	
C529	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C530	2401-000753	C-AL;220NF,20%,50V,GP,TP,3X5,5	
C531	2401-002183	C-AL;220UF,20%,16V,GP,TP,8X9,5MM	
C532	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C533	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
C534	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C535	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C536	A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF	
C537	A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF	
C538	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012,-	
C539	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012,-	
C540	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C541	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012,-	
C542	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C543	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C544	2401-001893	C-AL;100UF,20%,16V,-,TP,6.3X7MM,5	
C545	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C548	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C551	2203-005197	C-CERAMIC,CHIP;470NF,+80-20,25V,Y5V,BK,2010,-	
C552	2203-005197	C-CERAMIC,CHIP;470NF,+80-20,25V,Y5V,BK,2010,-	
C553	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,TP,2012,2MM	
IC501	1204-001055	IC-AUDIO PROCESSOR;TA1264,QFP,80P,-,PLASTIC,9V,-	
IC502	1204-001049	IC-SOUND;LA7256,DIP,24P,300MIL,PLASTIC,	
L501	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L502	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L503	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
R501	2007-001641	R-CHIP,MELF;0OHM,5%,1/8W,DB,BK,2012	
R502	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R503	2007-001641	R-CHIP,MELF;0OHM,5%,1/8W,DB,BK,2012	
R504	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
R505	2007-001574	R-CHIP,MELF;20KOHM,5%,1/8W,DB,BK,2012	
R506	2007-001546	R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012	
R507	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R508	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R509	2007-001591	R-CHIP,MELF;18KOHM,5%,1/8W,DB,BK,2012	
R510	2007-000511	R-CHIP;2.4KOHM,5%,1/10W,DA,TP,2012	
R511	2007-001591	R-CHIP,MELF;18KOHM,5%,1/8W,DB,BK,2012	

Loc. No	New Part No	Description and Specification	Remark
R512	2001-000908	R-CARBON;62KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R513	2007-001555	R-CHIP,MELF;27KOHM,5%,1/8W,DB,BK,2012	
R514	2007-001555	R-CHIP,MELF;27KOHM,5%,1/8W,DB,BK,2012	
R515	2001-000908	R-CARBON;62KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R516	2007-001553	R-CHIP,MELF;2KOHM,5%,1/8W,DB,BK,2012	
R517	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R518	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R519	2007-001555	R-CHIP,MELF;27KOHM,5%,1/8W,DB,BK,2012	
R520	2001-000766	R-CARBON;43KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R521	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012	
R522	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R523	2007-001586	R-CHIP,MELF;1MOHM,5%,1/8W,DB,BK,2012	
R524	2007-001603	R-CHIP,MELF;150OHM,5%,1/8W,DB,BK,2012	
R525	2007-001603	R-CHIP,MELF;150OHM,5%,1/8W,DB,BK,2012	
R526	2007-001555	R-CHIP,MELF;27KOHM,5%,1/8W,DB,BK,2012	
R527	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R528	2007-001555	R-CHIP,MELF;27KOHM,5%,1/8W,DB,BK,2012	
R529	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R534	2001-000577	R-CARBON;2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R535	2001-000633	R-CARBON;30KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R570	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R571	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
I/O PARTS			
C802	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C804	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C807	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
C815	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C818	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
C819	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5	
C820	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
C821	2401-002196	C-AL;4.7UF,0.2,25V,GP,4X5,5MM,TP	
C822	2401-001893	C-AL;100UF,20%,16V,-,TP,6.3X7MM,5	
C823	2401-002196	C-AL;4.7UF,0.2,25V,GP,4X5,5MM,TP	
C824	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,2012,2MM	
C825	2203-001696	C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,2012,2MM	
C829	2401-000918	C-AL;22UF,20%,16V,GP,-,6.3X7,5	
C831	2203-001615	C-CERAMIC,CHIP MELF;270PF,10%,50V,Y5P,TP,2012,2M	
C832	2203-001615	C-CERAMIC,CHIP MELF;270PF,10%,50V,Y5P,TP,2012,2M	
C833	2203-001615	C-CERAMIC,CHIP MELF;270PF,10%,50V,Y5P,TP,2012,2M	
C834	2203-001615	C-CERAMIC,CHIP MELF;270PF,10%,50V,Y5P,TP,2012,2M	
C849	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C850	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,	
D801	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D802	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D803	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D804	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D805	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D806	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D807	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D808	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
J805	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
JC802	AC37-20001E	JACK-RCA;DPAE-9606,6P,HIFI,PI3.3	
L801	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L802	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	

Loc. No	New Part No	Description and Specification	Remark
L816	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L820	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L821	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
Q802	0501-000303	TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,TO-92,-,120	
Q803	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP,120-	
R807	2007-001239	R-CHIP;910OHM,5%,1/10W,DA,TP,2012	
R808	2007-001505	R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012	
R811	2007-001505	R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012	
R812	2007-001460	R-CHIP,MELF;75OHM,5%,1/8W,DB,BK,2012	
R813	2007-001460	R-CHIP,MELF;75OHM,5%,1/8W,DB,BK,2012	
R814	2007-001464	R-CHIP,MELF;750OHM,5%,1/8W,DB,BK,2012	
R815	2007-001464	R-CHIP,MELF;750OHM,5%,1/8W,DB,BK,2012	
R820	2007-001572	R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012	
R821	2007-001572	R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012	
R850	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
R851	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012	
SW801	3408-000127	SWITCH-SLIDE;12V,100MA,-,-	
670	**DO NOT ORDER**	**ASSY-F/TIMER**	**(S.N.A)**
C701	2401-001893	C-AL;100UF,20%,16V,-,TP,6.3X7MM,5	
C702	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-	
C703	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3.5X19,-	
C704	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
C705	2401-001893	C-AL;100UF,20%,16V,-,TP,6.3X7MM,5	
C706	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V,TP,3.5X	
C707	2202-000243	C-CERAMIC,MLC-AXIAL;33PF,5%,50V,SL,3.5X19,-,TP	
C708	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X19,-,TP	
C709	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X19,-,TP	
C710	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X19,-,TP	
C711	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-	
C712	2202-000850	C-CERAMIC,MLC-AXIAL;2.2NF,30%,16V,Y5R,TP,3.5X1.9	
C713	2202-000850	C-CERAMIC,MLC-AXIAL;2.2NF,30%,16V,Y5R,TP,3.5X1.9	
C714	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
C716	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3.5X19,-	
C717	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3.5X19,-	
CN701	3710-000545	CONNECTOR-SOCKET;20P,1R,1.5MM,STRAIGHT,SN	
D706	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D710	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D711	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D712	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D713	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D718	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D722	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D723	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D727	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D728	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D729	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D730	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D736	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D737	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D738	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
D739	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO	
DT701	AC07-20050H	VF-DISPLAY;SVV-11MS12,15SEG,106.68X21.5,S	
IC701	1003-001039	IC-VFD;UPD16311GC-AB6,QFP,52P,-,-,-40	

Loc. No	New Part No	Description and Specification	Remark
JK701	3722-000435	JACK-PIN;1P/1C,PI3.3,SN,RED,-	
JK702	AC37-22001T	JACK-PIN;DSPS-8805-03W,PI4,3P,GLD,-	
JK703	3722-000433	JACK-PIN;1P/1C,PI3.3,SN,YEL,-	
JS701	3406-001015	SWITCH-ROTARY;5V,10MA,DP5T,9.1MM	SHUTTLE OPTION
L701	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L702	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L703	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
LD701	0601-000497	LED;ROUND,GRN,3MM,565NM	
Q701	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9	
R701	2004-000292	R-METAL;12OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R702	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R703	2004-000790	R-METAL;330OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R704	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R706	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	SHUTTLE OPTION
R707	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	SHUTTLE OPTION
R708	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	SHUTTLE OPTION
R709	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	SHUTTLE OPTION
R711	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	SHUTTLE OPTION
R712	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	SHUTTLE OPTION
R713	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	SHUTTLE OPTION
R714	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	SHUTTLE OPTION
R716	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R717	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R718	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R719	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R720	2001-000325	R-CARBON;120OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R721	61048-177-563	R-CARBON;RD 1/8 T 563-J	
R722	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R726	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R727	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R728	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R729	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R730	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R731	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R732	2001-000633	R-CARBON;30KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R733	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R734	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RM701	AC59-62001G	MODULE-REMOCON;TFMR5380,38KHZ,-,-,-,-	
SW701	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM,D	
SW703	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM,D	
SW704	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM,D	
SW705	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM,D	
SW706	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM,D	
SW707	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM,D	
SW709	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM,D	
SW710	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM,D	
SW711	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM,D	
SW712	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM,D	
SW713	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM,D	NO SHUTTLE OPTION
SW714	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM,D	NO SHUTTLE OPTION
SW715	3404-001008	SWITCH-TACT;12V,20MA,160+-50,6X7.9X3.5MM,D	
ZD701	62169-403-833	DIODE ZENER;UZ 5.6BH	
ZD702	0403-000555	DIODE-ZENER;MTZ30D,30V,29.02-30.51V,500MW,	

Loc. No	New Part No	Description and Specification	Remark
	AC59-10329G	**REMOCON-ASSY**	
	64043-0166-00	DOOR-BATTERY;ABS94HB T2 D/GRY NR-3346	
CT1	2401-001471	C-AL;47UF,20%,10V,GP,-,5X11,2.5MM	
CT2	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,TP,2012,	
ICT01	AC09-10453K	IC-MCU;Z86L7608,A160,28P,QFP,A120U,8B	
LDT1	A4150-0168	LED-INFRARED;SI5312-H NTR 940NM/1.4V	
QT1	0501-000592	TR-SMALL SIGNAL;2SD1781K-QR,NPN,200MW,SOT-23,T	
RT1	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	
RT2	2007-000593	R-CHIP;22OHM,5%,1/10W,DA,TP,2012	
XT1	B1283-0036	RESONATOR-CERAMIC;8MHZ EFOEC8004T4 3/CN J TAPG	

MEMO

8. Block Diagrams

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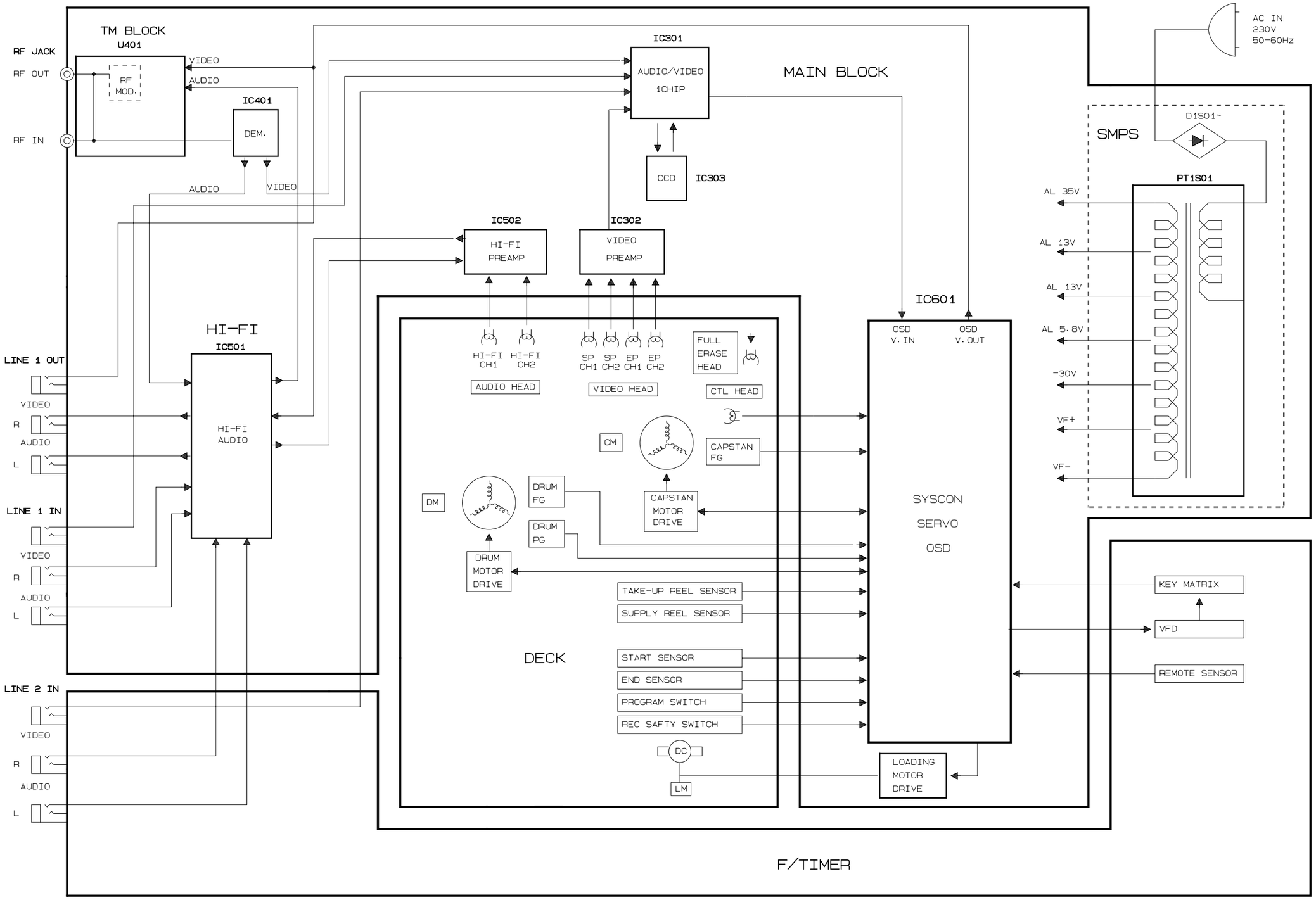
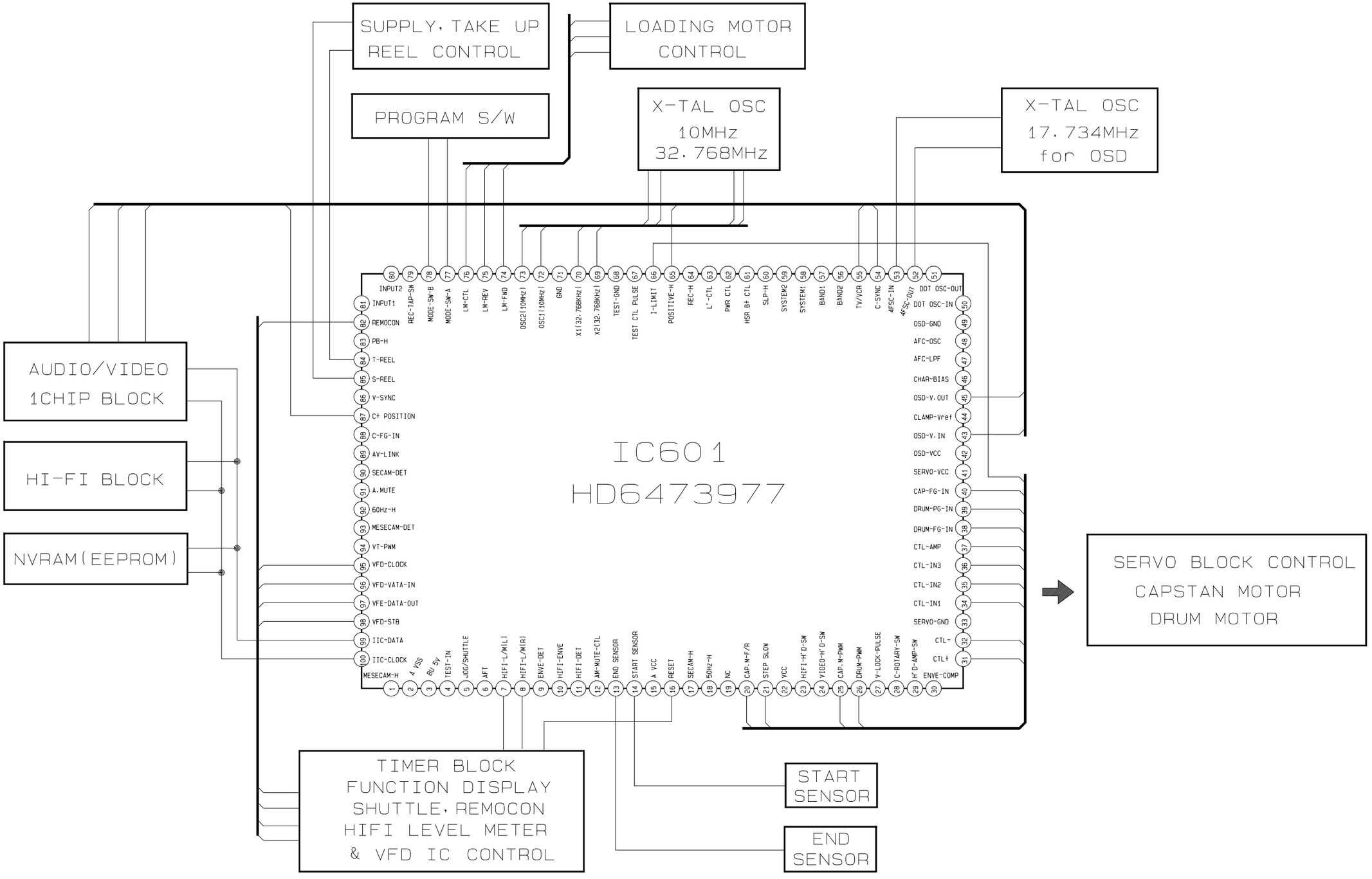
8-1	Overall Block Diagram	8-2
8-2	System Control	8-3
8-3	Video	8-4
8-4	Hi-Fi Audio	8-5
8-5	Function-Timer	8-6

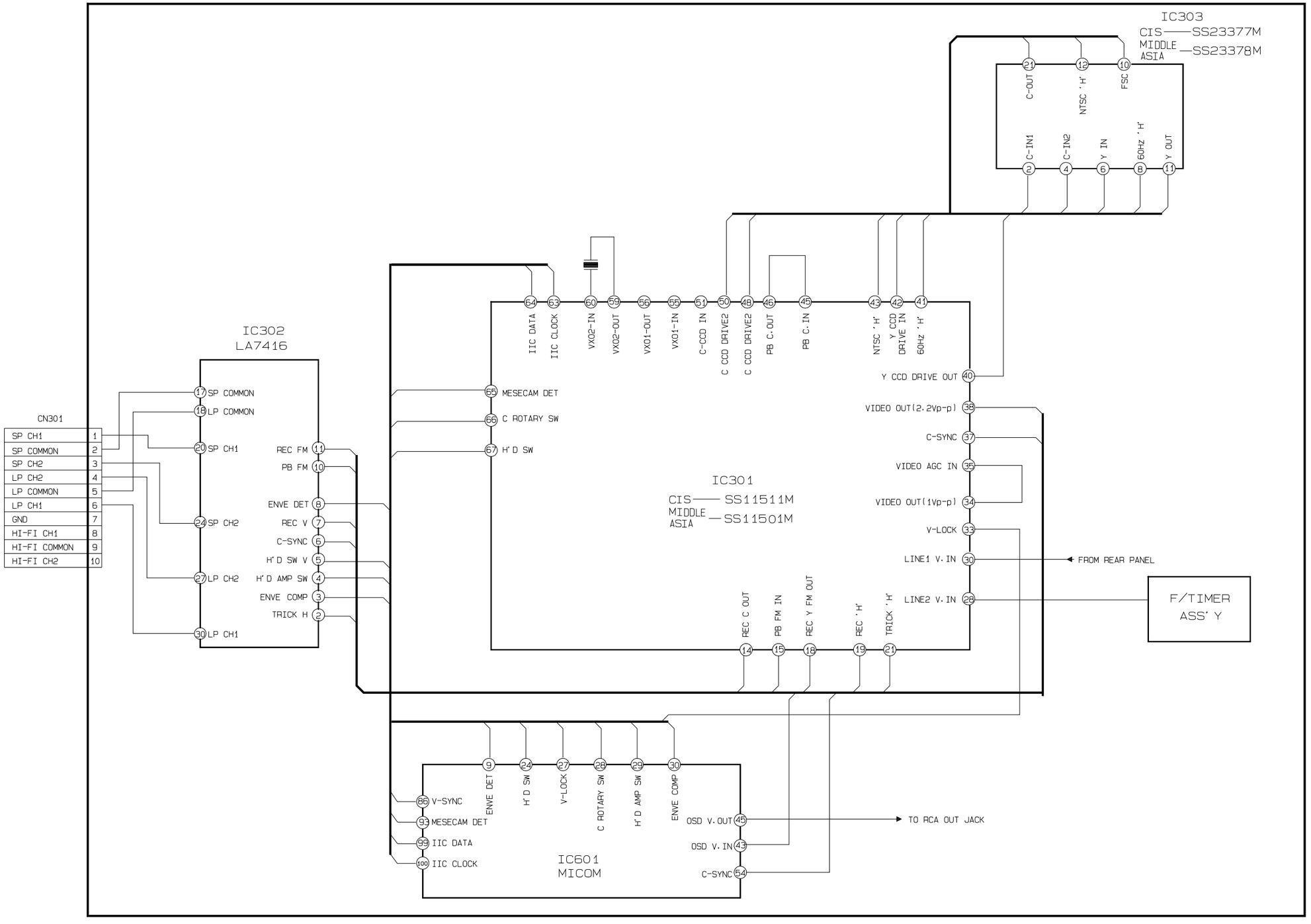
8-1 Overall Block Diagram



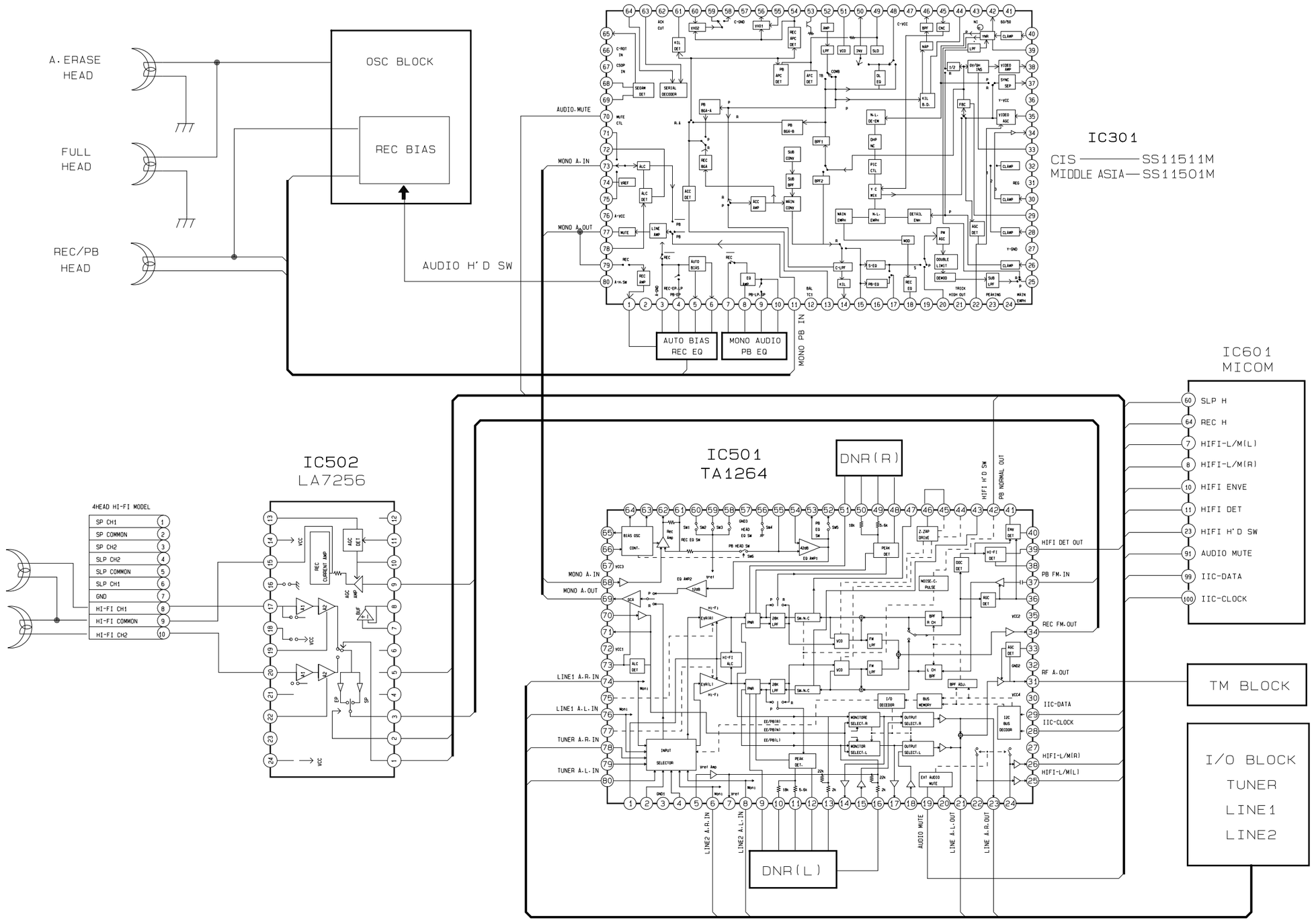
8-2 System Control



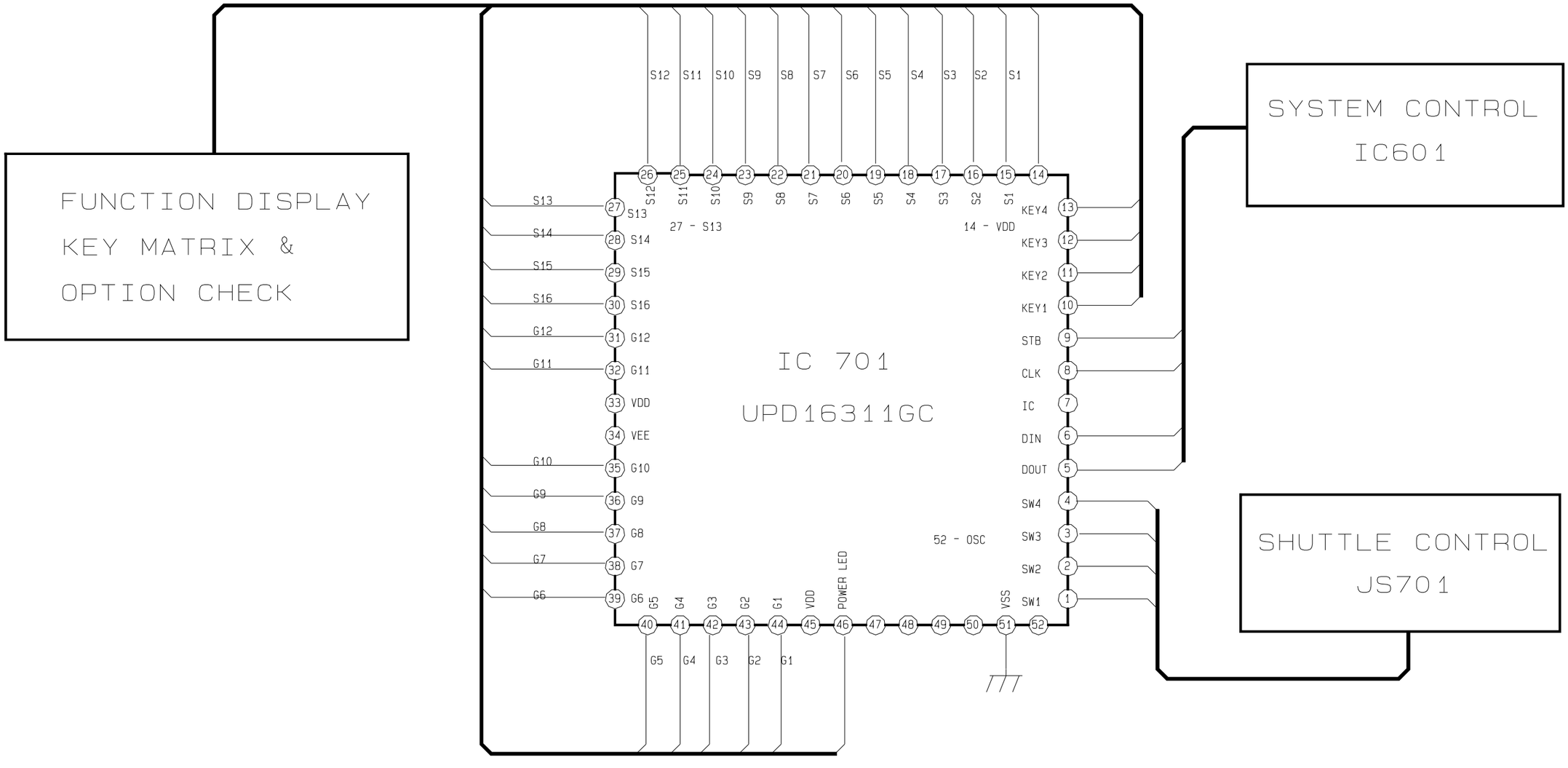
8-3 Video


IC303
CIS —— SS23377M
MIDDLE ASIA —— SS23378M
C-OUT
NTSC 'H'
FSC
C-IN1
C-IN2
Y IN
60HZ 'H'
Y OUT
IIC DATA
IIC CLOCK
VXO2-IN
VXO2-OUT
VXO1-OUT
VXO1-IN
C-CCD IN
C CCD DRIVE2
C CCD DRIVE2
PB C.OUT
PB C. IN
NTSC 'H'
Y CCD DRIVE IN
60HZ 'H'
Y CCD DRIVE OUT
VIDEO OUT(2.2Vp-p)
C-SYNC
VIDEO AGC IN
VIDEO OUT(1Vp-p)
V-LOCK
LINE1 V.IN
LINE2 V.IN
FROM REAR PANEL
F/TIMER ASS'Y
IC302
LA7416
SP COMMON
LP COMMON
SP CH1
SP CH2
LP CH2
LP CH1
REC FM
PB FM
ENVE DET
REC V
C-SYNC
H'D SW V
H'D AMP SW
ENVE COMP
TRICK H
MESECAM DET
C ROTARY SW
H'D SW
IC301
CIS —— SS11511M
MIDDLE ASIA —— SS11501M
REC C OUT
PB FM IN
REC Y FM OUT
REC 'H'
TRICK 'H'
CN301
SP CH1 1
SP COMMON 2
SP CH2 3
LP CH2 4
LP COMMON 5
LP CH1 6
GND 7
HI-FI CH1 8
HI-FI COMMON 9
HI-FI CH2 10
ENVE DET
H'D SW
V-LOCK
C ROTARY SW
H'D AMP SW
ENVE COMP
V-SYNC
MESECAM DET
IIC DATA
IIC CLOCK
OSD V.OUT
OSD V.IN
C-SYNC
TO RCA OUT JACK
IC601
MICOM

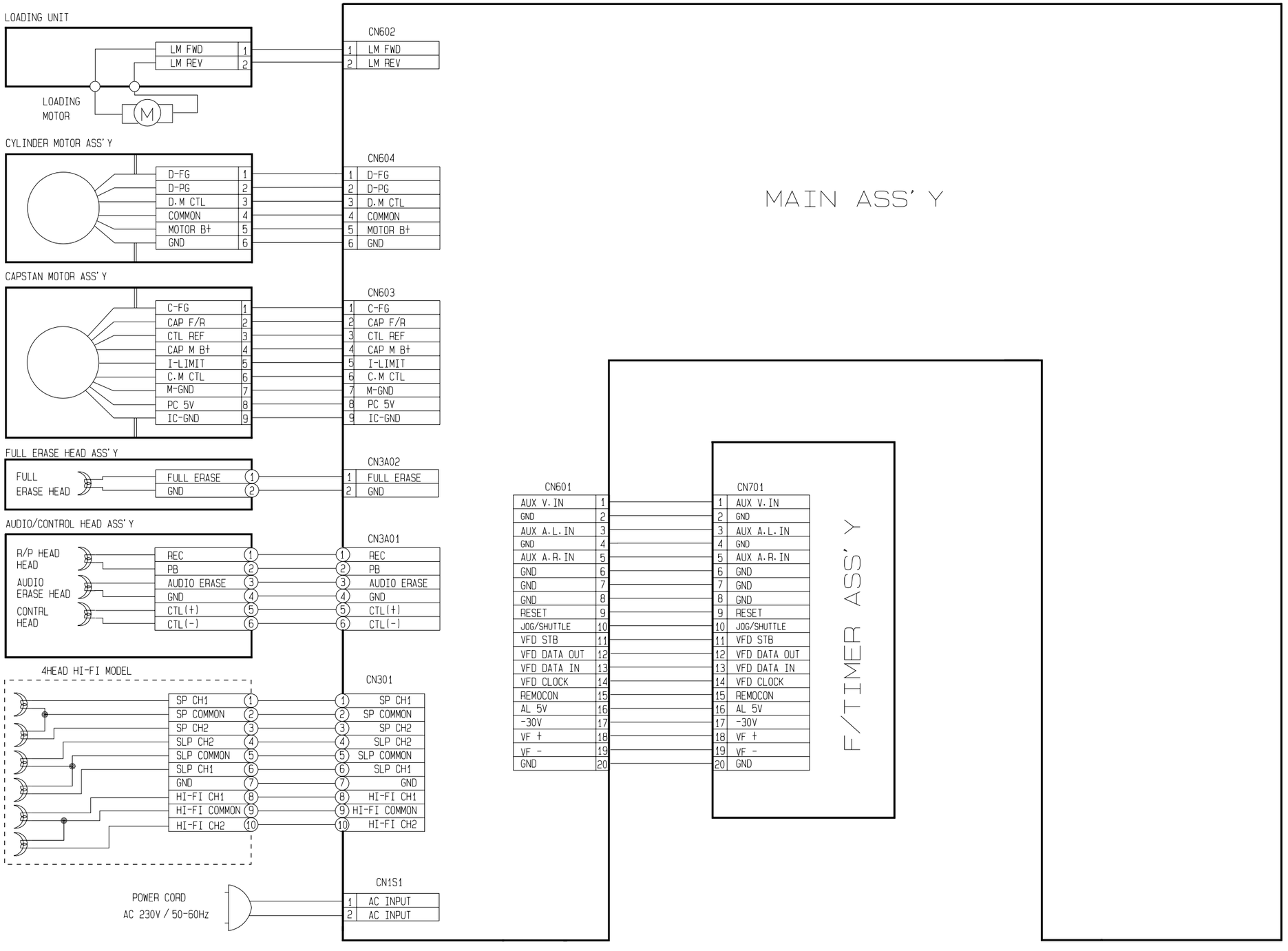
8-4 Hi-Fi Audio



8-5 Function-Timer



10. Wiring Diagram



11. Schematic Diagrams

		Page
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11-4	Hi-Fi Audio	11-6
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Note

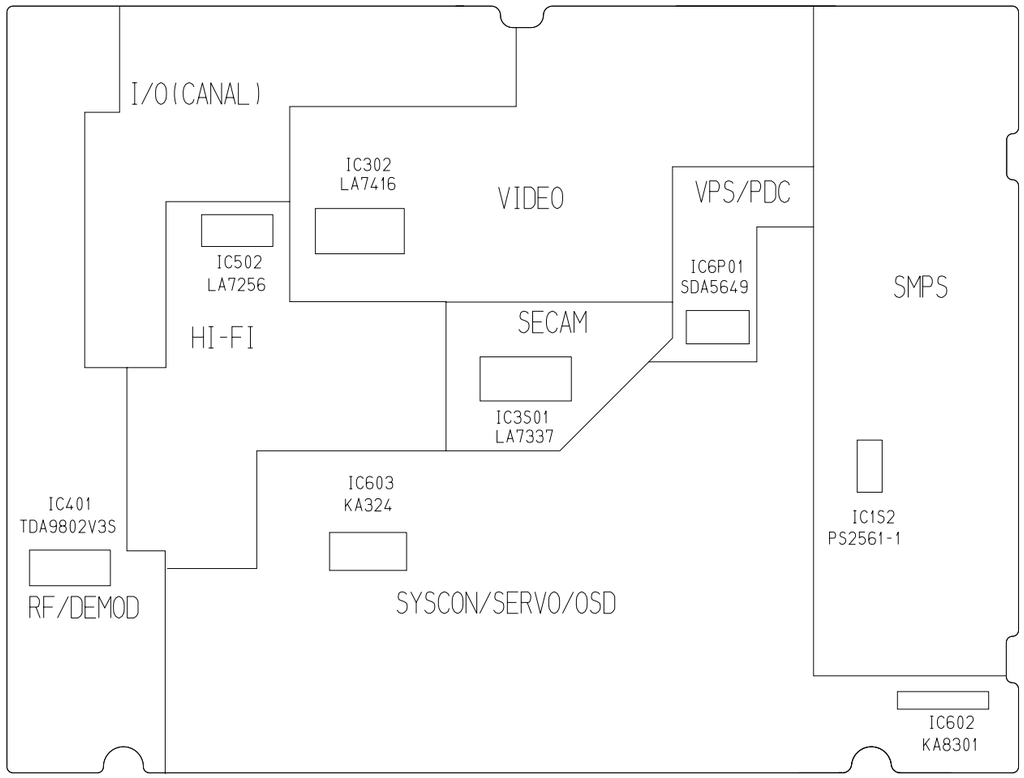
For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.
- Circled numbers refer to waveforms.

Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the “electrostatically sensitive (ES) devices” section of this service manual.

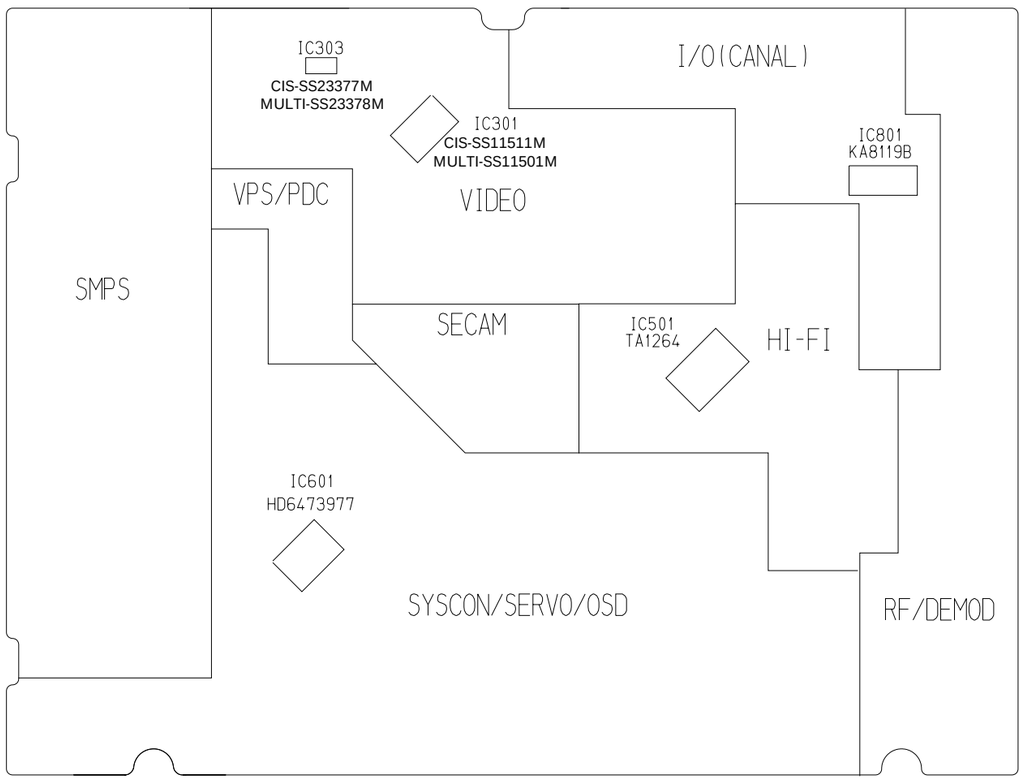
Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components. Use only the same type.

◆ Block Identification of Main PCB

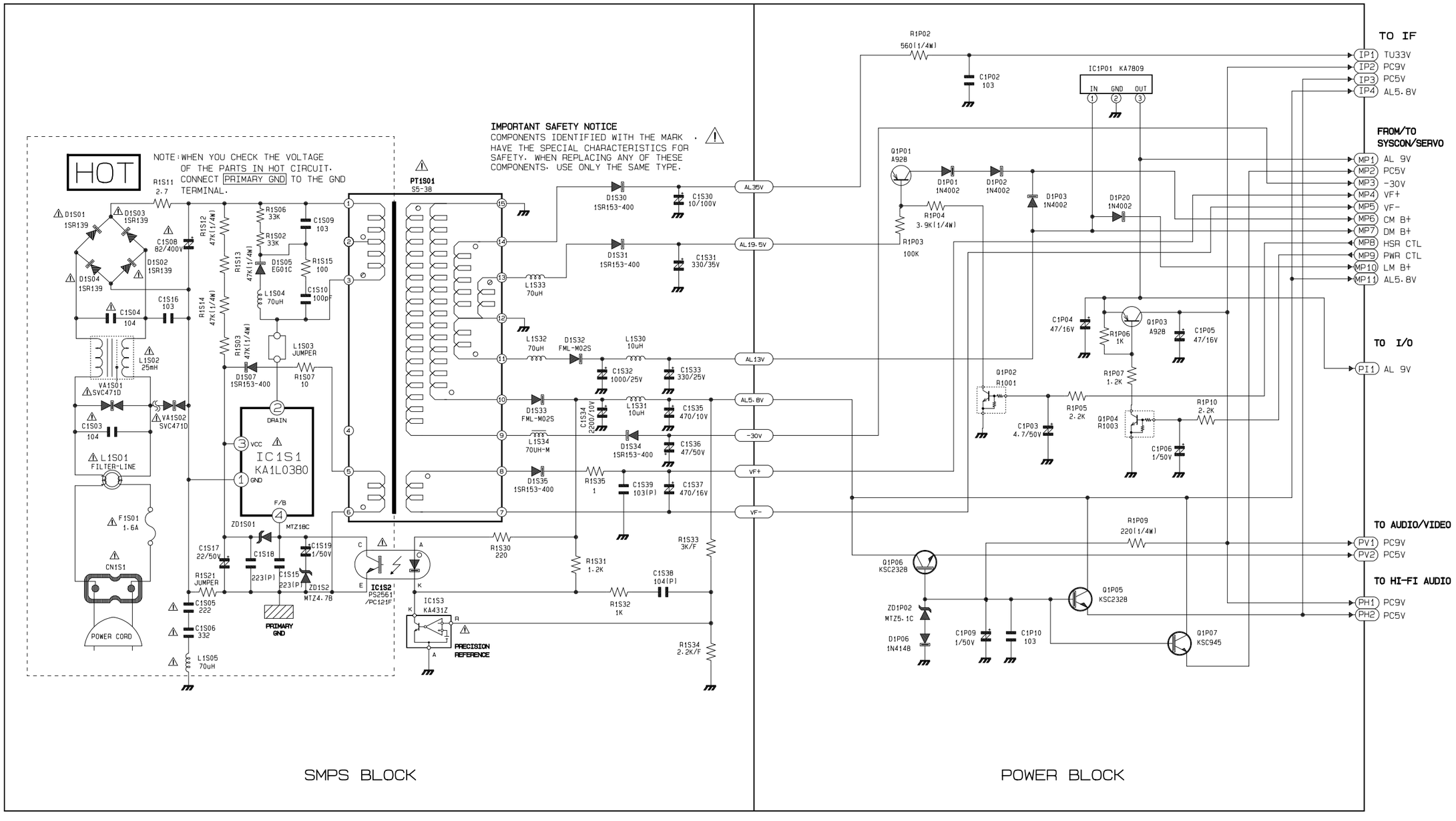


(Component Side)

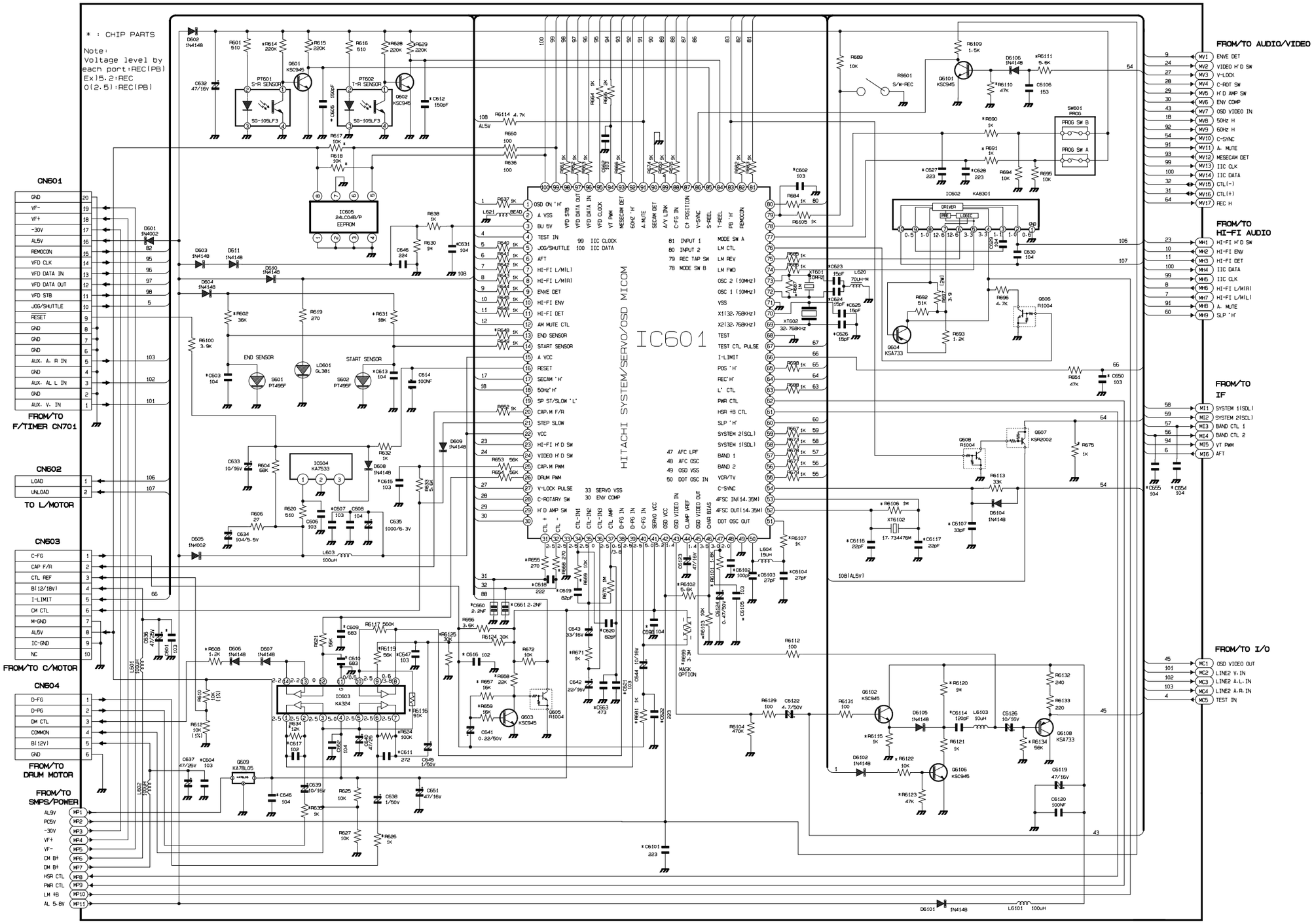


(Conductor Side)

11-1 S.M.P.S/POWER

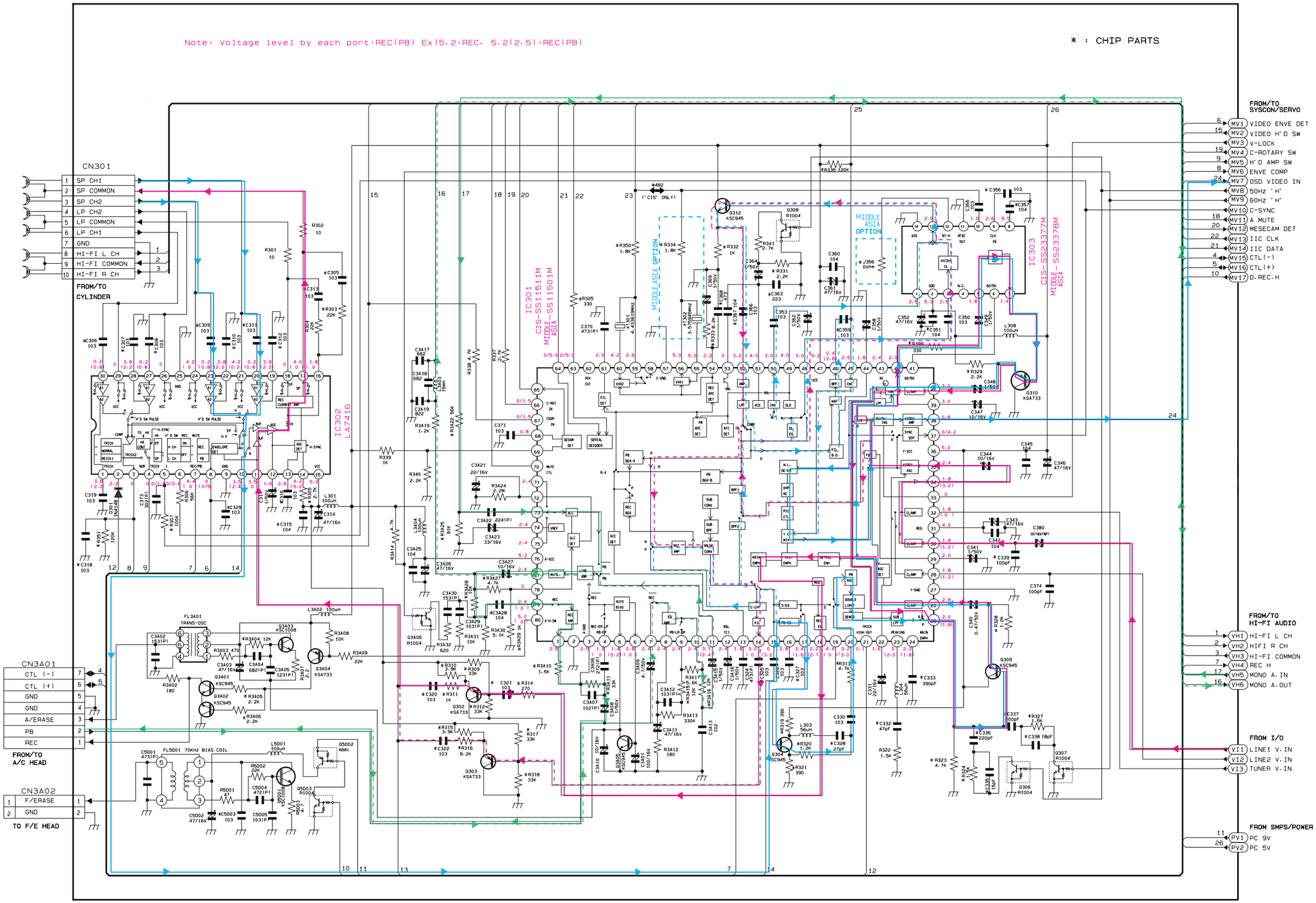


11-2 System Control/Servo

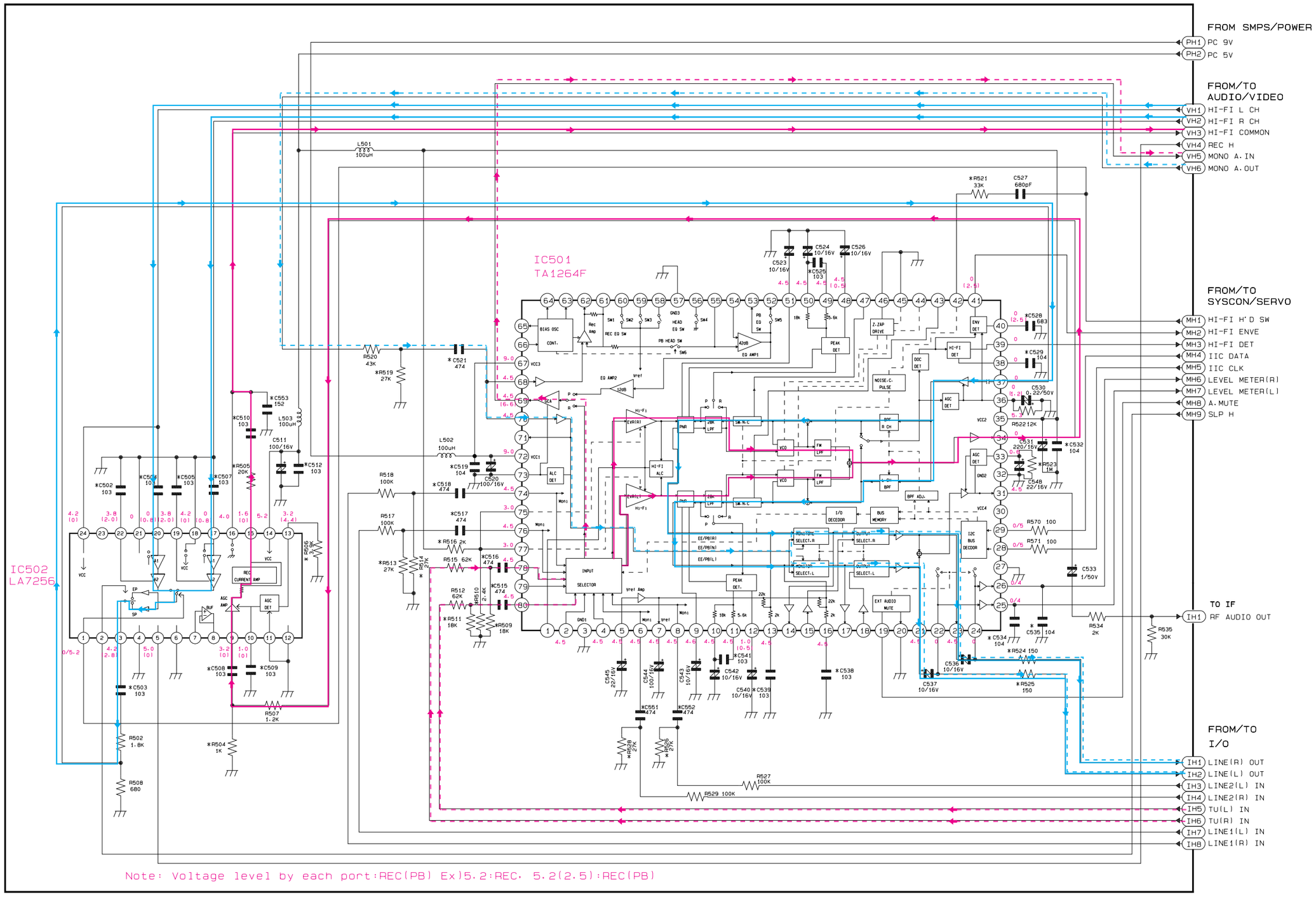


11-3 Audio/Video

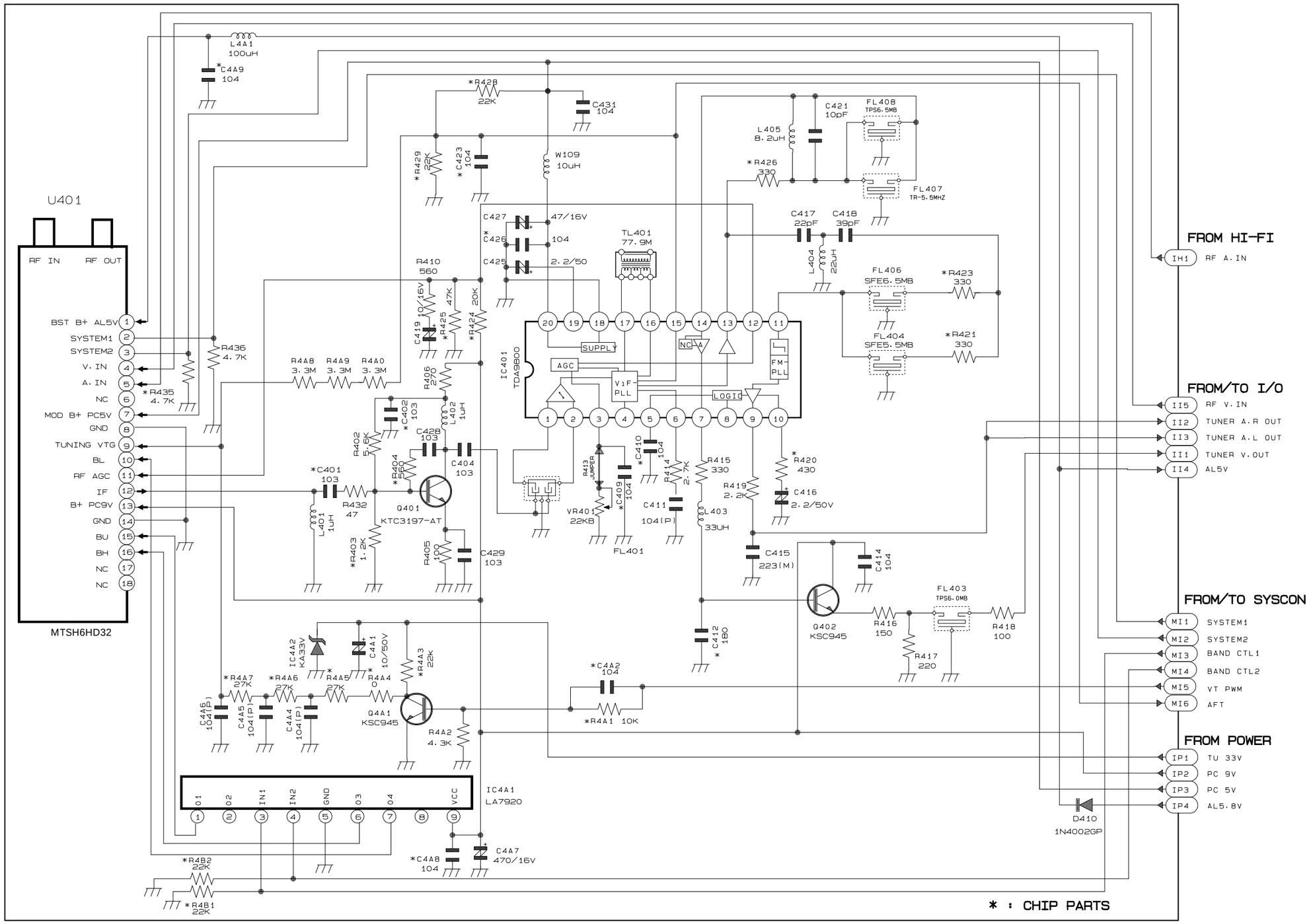
REC Y PROCESS
REC C PROCESS
PB Y PROCESS
PB C PROCESS
REC LINEAR AUDIO
PB LINEAR AUDIO



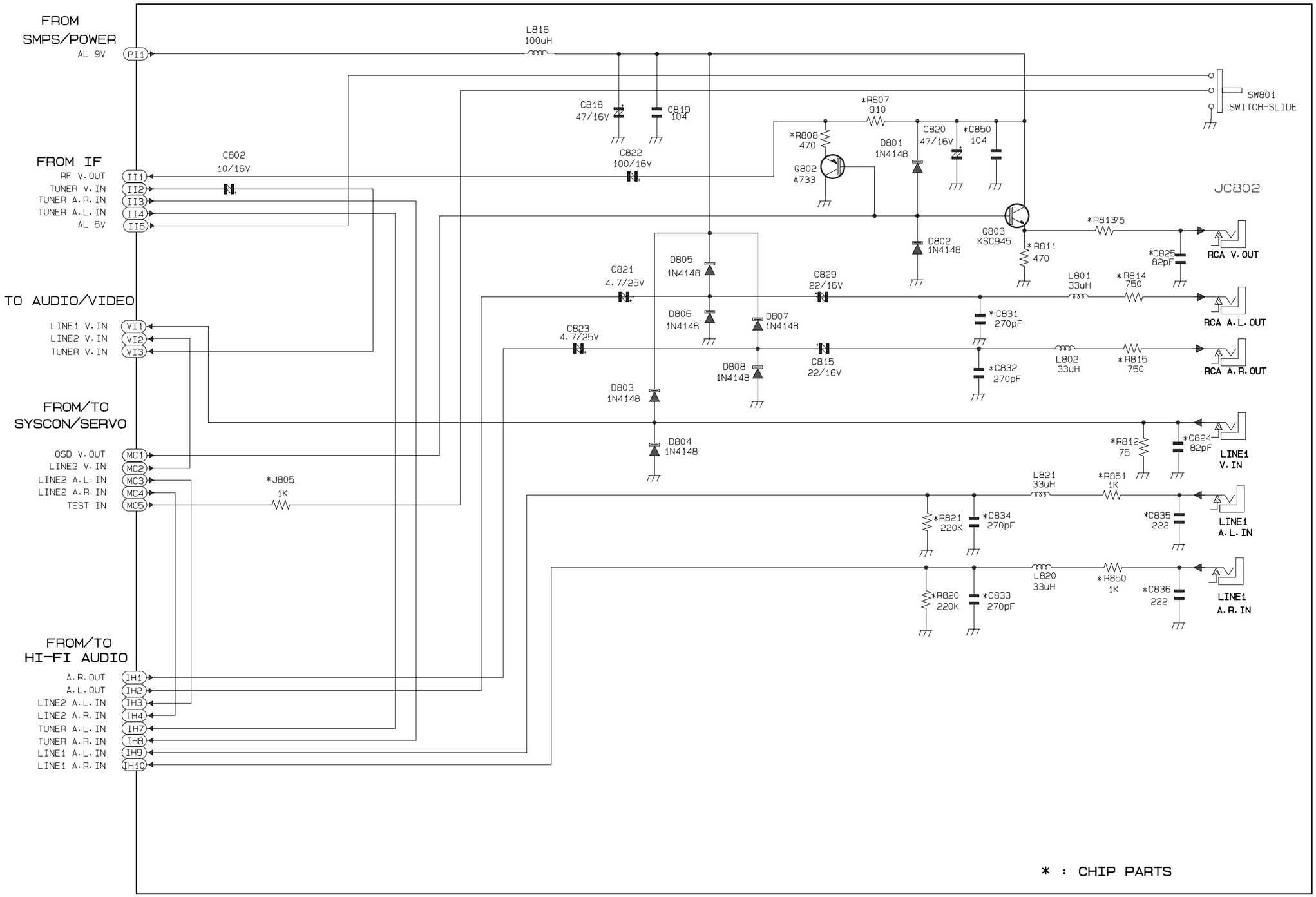
11-4 Hi-Fi Audio



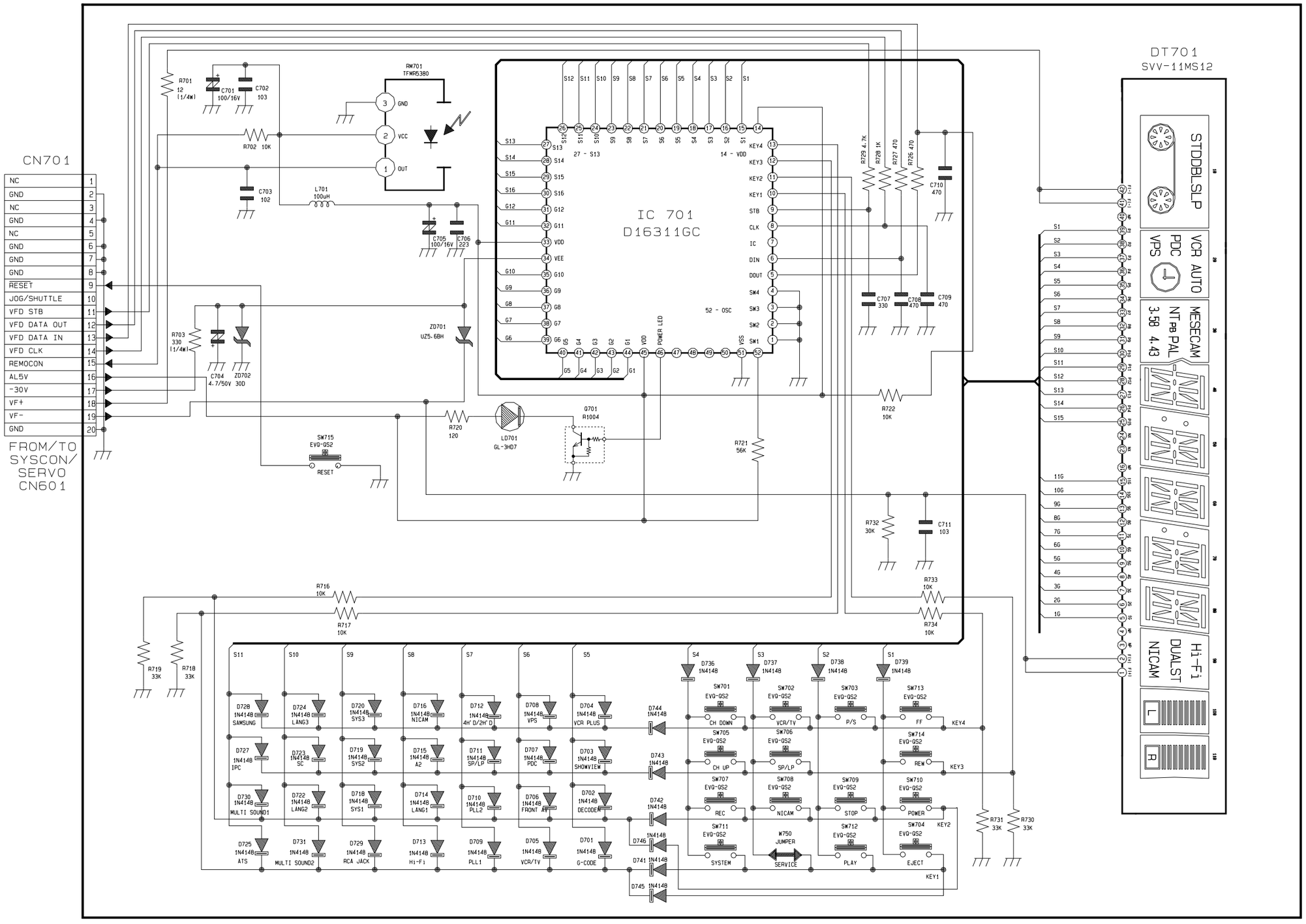
11-5 IF


U401
RF IN
RF OUT
BST B+ AL5V
SYSTEM1
SYSTEM2
V. IN
A. IN
NC
MOD B+ PC5V
GND
TUNING VTG
BL
RF AGC
IF
B+ PC9V
GND
BU
BH
NC
NC
MTSH6HD32
L4A1 100uH
*C4A9 104
*R428 22K
C431 104
*R429 22K
*C423 104
W109 10uH
L405 8.2uH
C421 10pF
FL408 TPS6.5MB
*R426 330
FL407 TR-5.5MHZ
C427 47/16V
*C426 104
C425 2.2/50
TL401 77.9M
C417 22pF
C418 39pF
L404 22uH
FL406 SFE6.5MB
*R423 330
FL404 SFE5.5MB
*R421 330
R410 560
C419 10/16V
*R425 47K
*R424 20K
IC401 TDA9800
SUPPLY
AGC
VIF PLL
NC
A
FM PLL
LOGIC
R436 4.7K
*R435 4.7K
R4A8 3.3M
R4A9 3.3M
R4A0 3.3M
R406 270
*C402 103
L402 1uH
R402 5.6K
C428 103
C404 103
*C401 103
R432 47
L401 1uH
*R403 1.2K
*R404 560
Q401 KTC3197-AT
R405 100
C429 103
*C410 104
R413 JUMPER
VR401 22KB
*C409 104
FL401
R414 2.7K
C411 104(P)
R415 330
L403 33UH
R419 2.2K
*R420 430
C416 2.2/50V
C415 223(M)
C414 104
C412 180
Q402 KSC945
R416 150
R417 220
FL403 TPS6.0MB
R418 100
IC4A2 KA33V
C4A1 10/50V
*R4A3 22K
*R4A7 27K
*R4A6 27K
*R4A5 27K
R4A4 0
C4A6 104(P)
C4A5 104(P)
C4A4 104(P)
Q4A1 KSC945
R4A2 4.3K
*C4A2 104
*R4A1 10K
IC4A1 LA7920
O1 O2 IN1 IN2 GND O3 O4 VCC
*R4B2 22K
*R4B1 22K
*C4A8 104
C4A7 470/16V
D410 1N4002GP
FROM HI-FI
IH1 RF A.IN
FROM/TO I/O
II5 RF V.IN
II2 TUNER A.R OUT
II3 TUNER A.L OUT
II1 TUNER V.OUT
II4 AL5V
FROM/TO SYSCON
MI1 SYSTEM1
MI2 SYSTEM2
MI3 BAND CTL1
MI4 BAND CTL2
MI5 VT PWM
MI6 AFT
FROM POWER
IP1 TU 33V
IP2 PC 9V
IP3 PC 5V
IP4 AL5.8V
* : CHIP PARTS

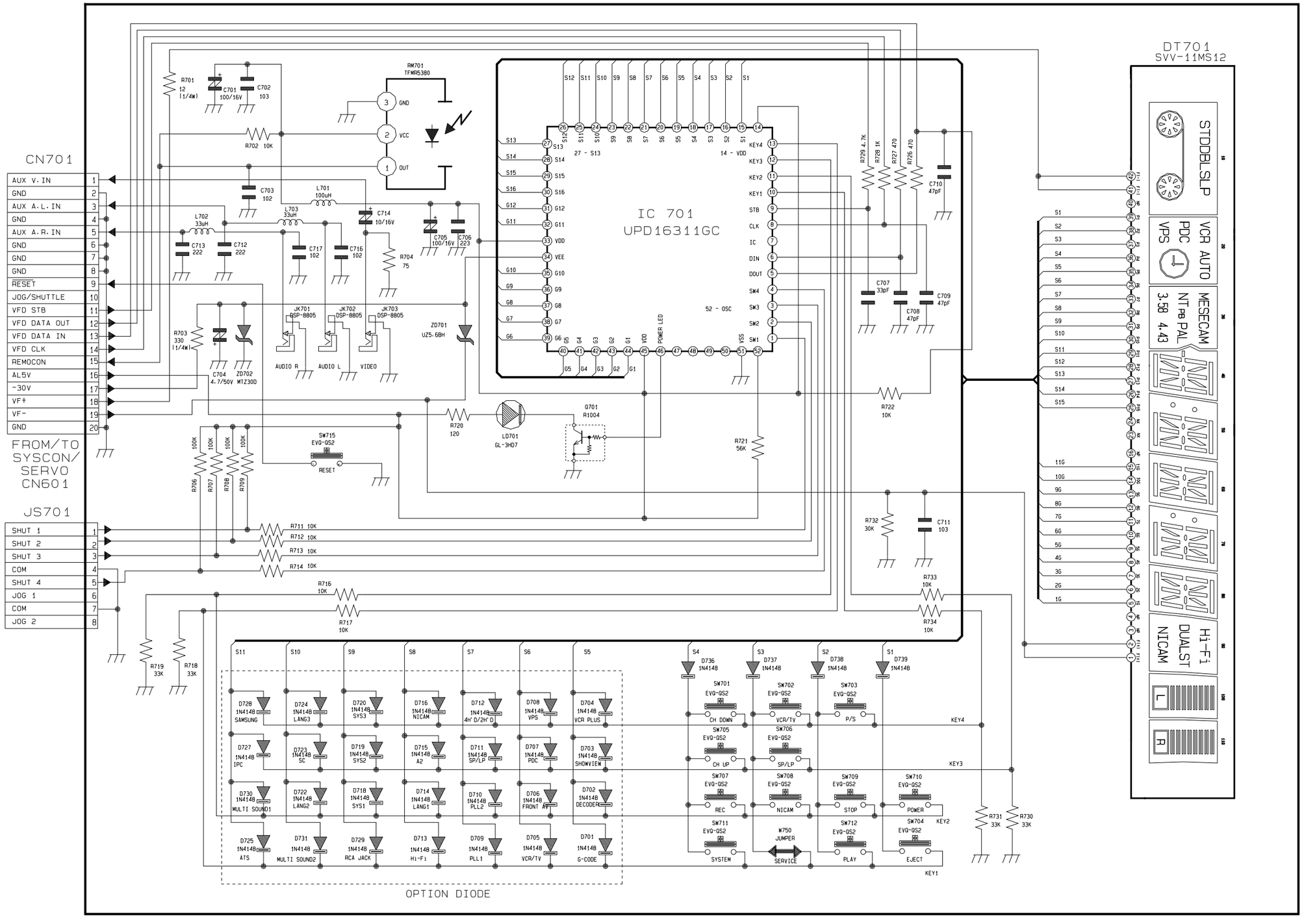
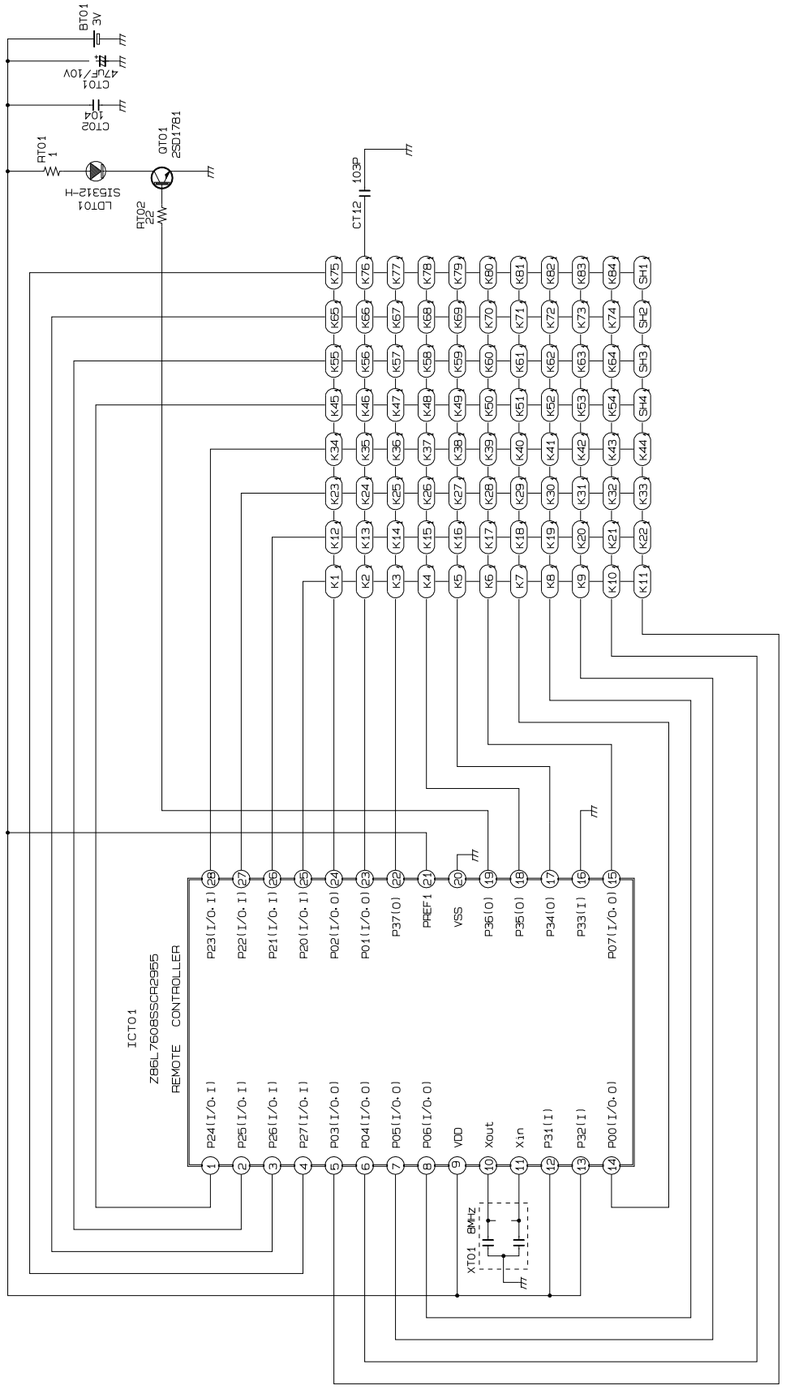
11-6 I/O


FROM SMPS/POWER
AL 9V
PI1
L816 100uH
C818 47/16V
C819 104
C822 100/16V
*R807 910
*R808 470
Q802 A733
D801 1N4148
C820 47/16V
*C850 104
SW801 SWITCH-SLIDE
JC802
FROM IF
RF V.OUT
TUNER V.IN
TUNER A.R.IN
TUNER A.L.IN
AL 5V
II1
II2
II3
II4
II5
C802 10/16V
Q803 KSC945
*R811 470
D802 1N4148
*R813 75
*C825 82pF
RCA V.OUT
TO AUDIO/VIDEO
LINE1 V.IN
LINE2 V.IN
TUNER V.IN
VI1
VI2
VI3
C821 4.7/25V
D805 1N4148
C829 22/16V
L801 33uH
*R814 750
RCA A.L.OUT
D806 1N4148
D807 1N4148
*C831 270pF
C823 4.7/25V
C815 22/16V
L802 33uH
*R815 750
RCA A.R.OUT
D808 1N4148
*C832 270pF
D803 1N4148
FROM/TO SYSCON/SERVO
OSD V.OUT
LINE2 V.IN
LINE2 A.L.IN
LINE2 A.R.IN
TEST IN
MC1
MC2
MC3
MC4
MC5
*J805 1K
D804 1N4148
*R812 75
*C824 82pF
LINE1 V.IN
L821 33uH
*R851 1K
*C835 222
LINE1 A.L.IN
*R821 220K
*C834 270pF
L820 33uH
*R850 1K
*C836 222
LINE1 A.R.IN
*R820 220K
*C833 270pF
FROM/TO HI-FI AUDIO
A.R.OUT
A.L.OUT
LINE2 A.L.IN
LINE2 A.R.IN
TUNER A.L.IN
TUNER A.R.IN
LINE1 A.L.IN
LINE1 A.R.IN
IH1
IH2
IH3
IH4
IH7
IH8
IH9
IH10
* : CHIP PARTS

11-7 Function-Timer (SV-A120G/SVR-600)



11-8 Function-Timer (SV-A140G/SVR-605)



11-9 Remote-Control